DRAFT EIA & EMP FOR

PROPOSED ROUGH STONE QUARRY

CATEGORY B1 - CLUSTER (CLUSTER AREA – 13.43.74 Ha.)

(Submitted for Public Hearing as per the provisions of EIA Notification 2006 & its amendments thereof)

ToR Identification No. TO25B0108TN5887407N (F. No. 12469), Dated 25.09.2025

PROPOSED QUARRY LEASE DETAILS	
SURVEY NO	**10/1 (Block-3)**
VILLAGE	**Padalur (East)**
TALUK	**Alathur**
DISTRICT	**Perambalur**
EXTENT	**1.40.0 Ha**
CLUSTER EXTENT	**13.43.74 Ha**
PROPOSED PRODUCTION	**3,70,850 m^3 of Rough Stone**
LAND	**GOVERNMENT PORAMBOKE LAND**

(Sector No. 1(a) Sector No.1 as per NABET)
Category of the Project: B1 Cluster Mining, Total Cluster Area – 13.43.74 Ha
Baseline Monitoring Period – March 2025 to May 2025

APPLICANT

THIRU. P. VELMURUGAN,
NO.1, ROYAL MAHALAKSHMI NAGAR, VIRUDHACHALAM,
CUDDALORE, TAMIL NADU - 606001.

ENVIRONMENTAL CONSULTANT	LABORATORY
M/s. GLOBAL MINING SOLUTIONS *(NABET Accredited & ISO 9001 Certified Consultant)* Plot No. 6, S.F.No. 13/2, A2, VS City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455. NABET Accreditation No: NABET/EIA/23-26/SA 0241, Valid Until - January 4, 2026 Contact: 97502 23535 & 94446 54520 Email: infoglobalmining@gmail.com, globalminingsolutionssalem@gmail.com	**M/s. SHRIENT ANALYTICAL & RESEARCH LABS PRIVATE LIMITED** (NABL Accredited Testing Laboratory) Valid Until -29.09.2029 #416/15, Dhargas Road, Perungalathur, West Tambaram, Chennai, Tamil Nadu, India.

December - 2025

AMENDMENT PAGE

SL	Page No.	Section / Clause / Para / Line (as Applicable)	Date of Amendment	Amendment Made	Reasons of amendment	Signature of Person Authorizing Amendment
1						
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9						
10						

ACKNOWLEDGEMENT

M/s. Global Mining Solutions, Salem is very much thankful Thiru. P. VELMURUGAN, Lessee for the confidence and trust placed on the organization for carrying out Environmental Impact Assessment (EIA) study for the proposed Rough Stone quarry over a lease extent of 1.40.00 Ha., & Cluster extent of 13.43.74 Ha., located at Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State and formulating the Environmental Management Plan (EMP). We also gratefully acknowledge the cooperation and assistance provided by concerned government authorities for collection of secondary information for the preparation of Draft EIA/EMP report. Our sincere thanks to the local people of Padalur Village and the nearby villages for their whole hearted cooperation and constant involvement during the entire field study without which the study would not have been possible.

For: M/s. Global Mining Solutions



(M. Prabu)

Managing Director

UNDERTAKING

In line with MoEFCC OM No. J – 11013/41/2006-IA.II (I) dated 5th October 2011, we hereby give our undertaking for owning the content and information in the EIA/EMP report submitted for EC of the proposed Rough Stone quarry over a lease extent of 1.40.0 Ha., & Cluster extent of 13.43.74 Ha located at Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.

For: M/s. Global Mining Solutions

M. MANIKANDAN
EIA CO-ORDINATOR
GLOBAL MINING SOLUTIONS
SALEM

UNDERTAKING

In Line with OM no. J-11013/41/2006-IA.II (1) dated 4th Aug 2009 and its Amendments, we hereby confirm that all Terms of Reference issued by Ministry of Environment, Forest and Climate Change vide ToR Identification No. TO25B0108TN5887407N (F.No. 12469), dated 25.09.2025 of Draft EIA/EMP report for the proposed Stone Quarry over a lease extent of 1.40.00 *Ha., & Cluster extent of 13.43.74 Ha., located at Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State for the production of 10,19,837.50Ts / 3,70,850 m3 of Rough Stone (5 years) from the proposed lease area and the details has been complied in the Draft EIA/EMP report is factually correct.*

The EIA/EMP report has been prepared by M/s. Global Mining Solutions (GMS), Salem. GMS is a NABET accredited consultant for preparation of EIA/EMP report of Mining of Minerals (Opencast & Under Ground Mining) vide certificate No. NABET/EIA/23-26/SA 0241, valid till 04.01.2026.

For: M/s. Global Mining Solutions

M. MANIKANDAN
EIA CO-ORDINATOR
GLOBAL MINING SOLUTIONS
SALEM

भारतीय गुणवत्ता परिषद्
QUALITY COUNCIL OF INDIA
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NABET

National Accreditation Board for Education and Training

Certificate of Accreditation

Global Mining Solutions

Plot No - 6 SF No 13/2 A2, VS City, RC Chettypatty, Kottamettupatty,Omalur,
Salem, Tamil Nadu-636455

*The organization is accredited as **Category-A** under the QCI-NABET **Scheme for Accreditation of EIA Consultant Organization, Version 3**: for preparing EIA/EMP reports in the following Sectors-*

S. No	Sector Description	Sector (as per)		Cat.
		NABET	MoEFCC	
1	Mining of minerals including opencast/ underground mining	1	1 (a) (i)	A
3	Thermal power plants	4	1 (d)	B
5	Metallurgical industries (ferrous)	8	3 (a)	A
6	Cement Plants	9	3 (b)	A
26	Building and construction projects	38	8 (a)	B
27	Townships and Area development projects	39	8 (b)	B

Note: Names of approved EIA Coordinators and Functional Area Experts are mentioned in SAAC minutes dated May 20, 2025, posted on QCI-NABET website.

The Accreditation shall remain in force subject to continued compliance to the terms and conditions mentioned in QCI-NABET's letter of accreditation bearing no. QCI/NABET/ENV/ACO/25/3638 dated May 30, 2025. The accreditation needs to be renewed before the expiry date Eco Chem Sales and Services, Surat following due process of assessment.

Valid up to
January 4, 2026

Issue Date
May 30, 2025

Certificate No.
NABET/EIA/23-26/SA 0241

Varinder Kanwar

Prof (Dr) Varinder S Kanwar
CEO - NABET

For the updated List of Accredited EIA Consultant Organizations with approved Sectors please refer to QCI-NABET website.

DECLARATION BY EXPERTS

Declaration by Experts contributing to the proposed Rough Stone Quarry over a lease extent of 1.40.00 Ha. & Cluster extent of 13.43.74 Ha located at Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.

I, hereby, certify that I was a part of the EIA team that developed the above EIA.

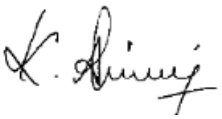
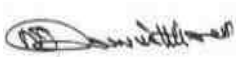
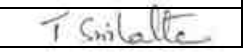
EIA Coordinator Name: M. Manikandan

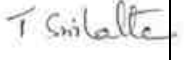
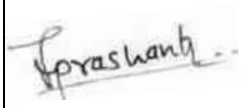
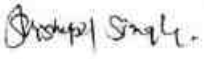


Period of involvement: March 2025 to May 2025.

Contact information:

M/s Global Mining Solutions
Plot No.6, SF No. 13/2, A2, VS City, RC Chettypatty,
Kottamettupatty, Omalur,
Salem, Tamil Nadu – 636 455.

S. No.	Functional areas	Name of the expert/s	Involvement (period and task**)	Signature and Date
1	*AP*	*Dhanalakshmi Ramanathan*	*Assessment of existing air quality, Impact of the project on ambient air and suggested mitigation measures for air pollution.* *Period: March 2025 to May 2025.*	
2	*WP*	*Abirami Kaliaperumal*	*Assessment of existing water quality, impact of the project on surface and ground water quality, suggested mitigation measures for minimizing the impact.* *Period: March 2025 to May 2025.*	
3	*SHW*	*Ramadoss N*	*Assessment of waste generated from the project, suggested waste management practices.* *Period: March 2025 to May 2025.*	
4	*SE*	*Sarasvathy K*	*Baseline SE studies. Data compilation and assessment. Impact of the project on SE status of the area. Formulation of CER plan.* *Period: March 2025 to May 2025.*	
5	*EB*	*Saravanan S*	*Baseline data collection of related to ecology of the area.* *Period: March 2025 to May 2025.*	
6	*HG*	*Ravinthiran N*	*Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area.* *Period: March 2025 to May 2025.*	
7	*AQ*	*Srilatha*	*Air quality modeling utilizing*	

		Thiruveedhula	*the area source model. Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures.* <u>*Period: March 2025 to May 2025*</u>*.*	
8	*NV*	*Dhanalakshmi Ramanathan*	*Ambient noise study of the area. Incremental noise generation due to quarry operation and impact of the noise due to the project.* <u>*Period: March 2025 to May 2025*</u>*.*	
9	*LU*	*Srilatha Thiruveedhula*	*Preparation of land use map based on satellite imagery. Land use classification and analysis. Impact prediction of the project on the surrounding land environment.* <u>*Period: March 2025 to May 2025*</u>*.*	
10	*RH*	*S.V. Prashant*	*Identification of the Risk related to the mining activities. Preparation of emergency disaster management plan. Plan for supply of safety equipment for the worker.* <u>*Period: March 2025 to May 2025*</u>*.*	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* <u>*Period: March 2025 to May 2025*</u>*.*	
12	*GEO*	*Valliappan Meyyappan*	*Geological map, stability of quarry and dump, management plan for mine stability, after use of mining quarry and geological feature of the area.* <u>*Period: March 2025 to May 2025*</u>*.*	

EIA CONTENT

CHAPTER NO	TITLE	PAGE NO
1	**INTRODUCTION**	**57**
1.1	PURPOSE OF THE REPORT	57
1.2	IDENTIFICATION OF PROJECT AND PROJECT PROPONENT	61
1.3	BRIEF DESCRIPTION OF NATURE, SIZE, LOCATION OF THE PROJECT AND ITS IMPORTANCE TO THE COUNTRY, REGION	61
1.4	IMPORTANCE OF THE PROJECT TO THE REGION	64
1.5	REGULATORY COMPLIANCE	64
1.6	NEED AND JUSTIFICATION OF THE PROJECT	69
1.7	STRUCTURE OF THE REPORT	69
2	**PROJECT DESCRIPTION**	**72**
2.1	TYPE OF PROJECT	72
2.2	NEED FOR THE PROJECT	72
2.3	LOCATION OF THE PROJECT	72
2.4	LAND USE PATTERN OF THE PROJECT AREA	82
2.5	SIZE OR MAGNITUDE OF OPERATION	82
2.6	TOPOGRAPHY AND DRAINAGE	82
2.7	GEOLOGY	82
2.8	RESOURCES AND RESERVES	86
2.9	PROCESS DESCRIPTION AND TECHNOLOGY	90
2.10	CONCEPTUAL MINING PLAN / FINAL MINE CLOSURE PLAN	95
2.11	PROJECT REQUIREMENT	97
3	**DESCRIPTION OF THE ENVIRONMENT**	105
3.1	STUDY AREA, PERIOD COMPONENTS AND METHODOLOGY	105
3.2	ENVIRONMENTAL SETTING OF THE STUDY AREA	106
3.3	Study period	107
3.4	ESTABLISHMENT OF BASELINE FOR VALUED ENVIRONMENTAL COMPONENTS	107
3.5	METEOROLOGICAL ENVIRONMENT	113
3.6	AMBIENT AIR MONITORING DATA	115
3.7	WATER ENVIRONMENT	124
3.8	NOISE MONITORING	130
3.9	SOIL SAMPLING ANAYSIS	133
3.10	BIOLOGICAL ENVIRONMENT	136
3.11	LAND USE	142
3.12	SOCIOECONOMIC ENVIRONMENT	150
3.13	HYDROGEOLOGY OF THE STUDY AREA	155
4	**ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION**	**163**

	MEASURES	
4.1	INTRODUCTION	163
4.2	DETAILS OF INVESTIGATED ENVIRONMENTAL IMPACTS DUE TO PROJECT LOCATION POSSIBLE ACCIDENTS, PROJECT DESIGN, PROJECT CONSTRUCTION, REGULAR OPERATIONS FINAL DECOMMISSIONING OR REHABILITATION OF A COMPLETE PROJECT.	164
4.3	MEASURES FOR MINIMIZING AND /OR OFFSETTING ADVERSE IMPACTS IDENTIFIED	165
4.4	VEGETATION IN THE CORE ZONE	170
4.5	IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF ENVIRONMENTAL COMPONENTS	171
4.6	ASSESSMENT OF SIGNIFICANCE OF IMPACTS (CRITERIA FOR DETERMINING SIGNIFICANCE, ASSIGNING SIGNIFICANCE)	171
4.7	MITIGATION MEASURES	185
5	**ANALYSIS OF ALTERNATIVES (TECHNOLOGY & SITES)**	190
5.1	DESCRIPTION OF EACH ALTERNATIVE	190
5.2	SUMMARY OF ADVERSE IMPACTS OF EACH ALTERNATIVE	190
5.3	MITIGATION MEASURES PROPOSED FOR EACH ALTERNATIVE	190
5.4	SELECTION OF ALTERNATIVE	190
6	**ENVIRONMENTAL MONITORING PROGRAMME**	**192**
6.1	TECHNICAL ASPECTS OF THE MONITORING THE EFFECTIVENESS OF MITIGATION MEASURES (INCL MEASUREMENTS, METHODOLOGIES, FREQUENCY LOCATION DATA ANALYSIS, REPORTING SCHEDULES EMERGENCY PROCEDURES DETAILED BUDGET AND PROCUREMENT SCHEDULES)	192
7	**ADDITIONAL STUDIES**	196
7.1	PUBLIC CONSULTATION	196
7.2	RISK ASSESSMENT & MANAGEMENT	196
7.3	DISASTER MANAGEMENT PLAN	200
7.4	CUMULATIVE IMPACT STUDY	202
7.5	CLUSTER MINE CLOSURE PLAN	208
7.6	SLOPE STABILITY PLAN	208
8	**PROJECT BENEFITS**	**209**
9	**ENVIRONMENTAL COST BENEFIT ANALYSIS**	**210**
10	**ENVIRONMENTAL MANAGEMENT PLAN**	**211**
10.1	DESCRIPTION OF THE ADMINISTRATIVE ASPECTS OF ENSURING OF ENSURING THAT MITIGATIVE MEASURES ARE IMPLEMENTED AND THEIR EFFECTIVENESS MONITORED AFTER APPROVAL OF THE EIA	211
11	**SUMMARY AND CONCLUSIONS**	218
11.1	OVER ALL JUSTIFICATION FOR IMPLEMENTATION OF THE PROJECT	218
11.2	EXPLANATION OF HOW ADVERSE EFFECTS HAVE BEEN MITIGATED	223
12	**DISCLOSURE OF CONSULTANTS ENGAGED**	**237**

FIGURE LIST

FIGURE NO	TITLE	PAGE NO
1.1	SATELLITE IMAGE SHOWING PROPOSED ML AREA	60
1.2	ENVIRONMENTAL SETTINGS MAP	64
2.1	LOCATION MAP	73
2.2	GOOGLE IMAGE SHOWING PROJECT SITE	74
2.3	SITE CONNECTIVITY MAP	75
2.4	TOPO MAP – 10 KM RADIUS	78
2.5	LEASE PLAN OF THE PROJECT AREA	79
2.6	VILLAGE MAP	80
2.7	SITE PHOTOGRAPHS	81
2.8	GEOLOGY MAP OF PROJECT AREA	84
2.9	PROCESS FLOW DIAGRAM	90
2.10	YEAR WISE DEVELOPMENT AND PRODUCTION PLAN & SECTIONS	91
2.11	CONCEPTUAL PLAN	96
2.12	WATER BALANCE CHART	97
2.13	FENCING AND PLANTATION PHOTOS	99
2.14	TRAFFIC STUDY MAP	100
3.1	STRUCTURES LOCATED WITHIN 300m RADIUS FROM THE PROPOSED QUARRY SITE	110
3.2	SATELLITE MAP	112
3.3	TOPO MAP (10 KM RADIUS)	112
3.4	SEISMIC MAP OF INDIA	115
3.5	WIND ROSE PLOT DURING MARCH TO MAY 2025	116
3.6	BASE MAP OF AMBIENT AIR MONITORING LOCATIONS	118
3.7	AMBIENT AIR DATA FROM A1 - MINE LEASE AREA	120
3.8	AMBIENT AIR DATA FROM A2 – SRIDEVI MANGALAM VILLAGE	120
3.9	AMBIENT AIR DATA FROM A3 – NEAR THERANI BIG LAKE VILLAGE	121
3.10	AMBIENT AIR DATA FROM A4 – PADALUR WEST VILLAGE	121
3.11	AMBIENT AIR DATA FROM A5 – ALATHUR VILLAGE	122
3.12	AMBIENT AIR DATA FROM A6 – PUDHUKKURICHI VILLAGE	122
3.13	AMBIENT AIR DATA FROM A7 – PADALUR VILLAGE	123
3.14	BASE MAP OF GROUND WATER SAMPLING LOCATIONS	126
3.13	BASE MAP OF SURFACE WATER SAMPLING LOCATIONS	126
3.14	VALUES OF FEW COMMON PARAMETERS OF THE WATER ANALYSIS	129
3.15	BASE MAP OF NOISE MONITORING LOCATIONS	131
3.16	DAY EQUIVALENT VALUES IN 7 LOCATIONS	132
3.17	BASE MAP OF SOIL SAMPLING LOCATIONS	134

3.18	REMOTE SENSING SATELLITE IMAGE	142
3.19	LAND USE/LAND COVER MAP OF THE STUDY AREA	146
3.20	VILLAGE MAP OF THE STUDY AREA	150
3.21	10 KM RADIUS OF THE DRAINAGE MAP	156
3.22	10 KM RADIUS OF THE GEOLOGY MAP	158
3.23	10 KM RADIUS OF THE STUDY AREA GEOMORPHOLOGY MAP	159
3.24	10 KM RADIUS OF THE STUDY AREA SOIL TYPE MAP	160
4.1	WATER BALANCE DIAGRAM	169
4.2	ISOPLETH OF GLC PREDICTION FOR PM2.5	178
4.3	ISOPLETH OF GLC PREDICTION FOR PM10	179
4.4	ISOPLETH OF GLC PREDICTION –CUMULATIVE FOR PM2.5	180
4.5	ISOPLETH OF GLC PREDICTION –CUMULATIVE FOR PM10	181
10.1	ORGANIZATION CHART	215

TABLE LIST

TABLE NO	TITLE	PAGE NO
1.1	DETAILS OF QUARRIES WITHIN 500M RADIUS	58
1.2	PROJECT IDENTIFICATION	61
1.3	DETAILS OF PROJECT PROPONENT	61
1,4	BRIEF DESCRIPTIONS OF THE PROJECT	61
1.5	PRESENT LEGAL STATUS	66
2.1	CO-ORDINATES OF THE PROJECT SITE	73
2.2	MINE LEASE AREA AND ITS OWNERSHIP	74
2.3	SITE CONNECTIVITY	75
2.4	SALIENT FEATURES OF THE PROJECT	76
2.5	ENVIRONMENTAL SETTINGS OF THE PROJECT SITE	76
2.6	LAND USE PATTERN OF THE PROJCET AREA	82
2.7	AVAILABLE GEOLOGICAL RESOURCES	86
2.8	AVIALABLE MINEABLE RESERVES	88
2.9	MACHINERY DETAILS	91
2.10	DETAILS OF BLASTING	91
2.11	YEAR WISE PRODUCTION PLAN	93
2.12	ULTIMATE PIT DIMENSION	95
2.13	LAND USE PATTERN OF THE PROJECT SITE	95
2.14	WATER REQUIREMENT	97
2.15	DETAILS OF FUEL REQUIREMENT	98
2.16	DETAILS OF MANPOWER REQUIREMENT	98
2.17	EXISTING TRAFFIC FLOW	102
2.18	MINERAL HOURLY TRANSPORTATION REQUIREMENT	102
2.19	SUMMARY ON TRAFFIC VOLUME	102
2.20	MODIFIED LEVEL OF SERVICE	103
3.1	ENVIRONMENTAL SETTINGS OF THE STUDY AREA	106
3.2	RAINFALL DATA	113
3.3	METEOROLOGICAL DATA RECORDED AT SITE	114
3.4	AMBIENT AIR QUALITY MONITORING LOCATIONS	117
3.5	RESULTS OF AIR SAMPLING ANALYSIS	118

3.6	WATER SAMPLING LOCATIONS	125
3.7	SURFACE WATER ANALYSIS RESULTS	127
3.8	GROUND WATER ANALYSIS RESULTS	128
3.9	NOISE MONITORING RESULTS	132
3.10	RESULTS OF SOIL SAMPLE ANALYSIS	135
3.11	LIST OF FLORA	138
3.12	LIST OF FAUNA	140
3.13	MAJOR LAND USE UNITS	144
3.14	MAJOR LAND USE UNITS OF THE STUDY AREA IN PERCENTAGE	149
3.15	VILLAGE DETAILS IN STUDY AREA	151
3.16	POPULATION PROFILE OF THE STUDY AREA	152
3.17	POPULATION PROFILE - PADALUR VILLAGE	152
3.18	EDUCATIONAL INFRASTRUCTURE	153
3.19	MEDICAL INFRASTRUCTURE	154
3.20	OTHER INFRASTRUCTURE	154
4.1	GROUND WATER LEVEL STATUS	170
4.2	IMPACTS AND MITIGATION MEASURES FOR FAUNA	171
4.3	CONCENTRATIONS OF PM2.5 & PM10 AFTER PROJECT IMPLEMENTATION	182
4.4	CLUSTER CONCENTRATIONS OF PM2.5 AFTER PROJECT IMPLEMENTATION	182
4.5	CONCENTRATIONS OF PM10 AFTER PROJECT IMPLEMENTATION	182
4.6	CLUSTER CONCENTRATIONS OF PM10 AFTER PROJECT IMPLEMENTATION	183
4.7	NOISE LEVELS IN MONITORING LOCATIONS	184
4.8	IMPACTS ON HUMANS DUE TO VARIOUS MINING ACTIVITIES	187
6.1	ENVIRONMENTAL MONITORING SCHEDULE	193
6.2	IMPORTANT RECORDS TO BE MAINTAINED BY PP	195
6.3	ENVIRONMENTAL MANAGEMENT PLAN BUDGET	195
7.1	HAZARDS AND PRECAUTIONARY MEASURES	197
7.2	DETAILS OF QUARRIES WITHIN 500M RADIUS	202
7.3	SALIENT FEATURES OF EXISTING & PROPOSED QUARRIES	205
7.4	CUMULATIVE PRODUCTION LOAD	206
7.5	SOCIO ECONOMIC BENEFITS FROM 9 MINES	207
8.1	CER ACTIVITIES	209

10.1	ENVIRONMENTAL MANAGEMENT PLAN	212
10.2	ENVIRONMENTAL MANAGEMENT PLAN BUDGET	216
11.1	DESCRIPTION OF THE LEASE AREA	222
11.2	DETAILS OF AMBIENT AIR QUALITY MONITORING LOCATIONS	224

LIST OF ANNEXURES

S. NO	CONTENTS	ANNEXURE NO
1	TERMS OF REFERENCE (TOR)	1
2	PRECISE AREA COMMUNICATION LETTER	2
3	APPROVED MINING PLAN WITH PLATES	3
4	500-METER RADIUS LETTER	4
5	VAO CERTIFICATE	5
6	LAND DOCUMENT	6
7	MONITORING REPORT	7
8	LAB NABL CERTIFICATE	8
9	CER LETTER	9

COMPLIANCE TO TERMS OF REFERENCE

S.No	TOR Points	Reply	Page No
SEAC Conditions - Site Specific			
1	The PP should furnish the revised mining plan incorporating benches during the submission of EIA report.	Agreed, The revised mining plan work is in progress, it will be submitted along with Final EIA report.	-
2	A Cluster Management Committee (CMC) shall be constituted including all the mines in the cluster as Committee Members for the effective management of the mining operation in the cluster through systematic & scientific approach with appointment of statutory personnel, appropriate environmental monitoring, good maintenance of haul roads and village/panchayat roads, authorized blasting operation etc. The PP shall submit the following details in the form of an Affidavit during the EIA appraisal: (i) Copy of the agreement forming CMC. (ii) The Organisation chart of the Committee with defining the role of the members (iii) The 'Standard Operating Procedures' (SoP) executing the planned activities.	A cluster management committee including all the proponents of the rough stone quarrying projects within the cluster of 500 m radius will be constituted for the effective implementation of appropriate environmental management plan. Affidavit in this regard will be submitted during final EIA/EMP Report.	-
3	The PP should submit an affidavit to follow the scientific formation of benches for 5m * 5m properly during mining as per the approved mining plan.	Agreed, An affidavit for stipulated bench formation will be incorporated in the Final Report.	-
4	The PP shall install the CCTV camera	We will install the CCTV camera for the	-

<table>
<tr><td></td><td>for the continuous surveillance of mining activity & furnish the photographic/ videographic evidence along with the EIA report.</td><td>continuous surveillance of mining activity & furnish the photographic / videographic evidence along with the Final EIA report.</td><td></td></tr>
<tr><td colspan="3">SEAC Conditions - Standard</td><td></td></tr>
<tr><td>1</td><td>In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following: (i) Original pit dimension (ii) Quantity achieved Vs EC Approved Quantity (iii) Balance Quantity as per Mineable Reserve calculated. (iv) Mined out Depth as on date Vs EC Permitted depth (v) Details of illegal/illicit mining (vi) Violation in the quarry during the past working. (vii) Quantity of material mined out outside the mine lease area (viii) Condition of Safety zone/benches (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m.</td><td>The applied lease area was previously operated by another lessee before 2015. The dimension of existing pits in the area applied for leases as per approved mining plan is given below.
<table>
<tr><th>Pit No.</th><th>Length (Max) (m)</th><th>Width (Max) (m)</th><th>Depth (Max) (m)</th></tr>
<tr><td>I</td><td>42</td><td>10</td><td>6m (AGL)</td></tr>
</table></td><td>-</td></tr>
<tr><td>2</td><td>Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site.</td><td>VAO certificate regarding the location of habitations within 300 m radius from the periphery of the site is attached as Annexure 4. There are no approved Structures within 300 m Radius.</td><td>-</td></tr>
<tr><td>3</td><td>The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and</td><td>A Site survey has been conducted to identify and list structures located within a 500 m radius from the Proposed Quarry and structures located</td><td>108</td></tr>
</table>

	(iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc.	within 500 m radius are given in section 3.4.3 of Chapter 3. As per filed study, there are 5 structures observed within 500m radius of the proposed site. Structures within 300m radius are 5 crusher plants, a Labour shed, and a Rework shed. Hence, there are no habitations/houses within 500m radius of the project site. Hence, there are no impacts.	
4	The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc located within 1 km of the proposed quarry.	A detailed hydro-geological report of the proposed project will be incorporated in the Final EIA/EMP Report.	-
5	The Proponent shall carry out Bio diversity study through Department of Ecology and Environmental Sciences. Pondicherry University and the same shall be included in EIA Report.	The bio diversity study has been carried out by our FAE is given in section 3.10 of Chapter 3.	135
6	The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site.	There are no Reserved Forest / Wild Life Sanctuary within a radius of 1Km. the R.F in the buffer zone (10 km radius) are detailed below. Naranamangalam R.F – 4.07 km (NW), Maniyankurichi R.F – 7.39Mkm (SW), Maramareddi palaiyam R.F. – 9.27 km (SW), Velur R.F – 7.38 km (NW) & Siruvachur R.F –7.28 km (NW).	-
7	In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially	The applied lease area was previously operated by another lessee before 2015. CCR not applicable. The	-

<table>
<tr><td></td><td>formed as per the approved Mining Plan, the Project Proponent (PP) shall the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC.</td><td>dimension of existing pits in the area applied for leases as per approved mining plan is given below.
<table><tr><th>Pit No.</th><th>Length (Max) (m)</th><th>Width (Max) (m)</th><th>Depth (Max) (m)</th></tr><tr><td>I</td><td>42</td><td>10</td><td>6m (AGL)</td></tr></table>
Slope stability study through reputed institute will be conducted once the depth reaches 25 m.</td><td></td></tr>
<tr><td>8</td><td>However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual ‘Slope Stability Plan’ for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level.</td><td>Slope stability study through reputed institute will be conducted once the depth reaches 25 m.</td><td>-</td></tr>
<tr><td>9</td><td>The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent.</td><td>Affidavit for blasting operation will be incorporated in the Final EIA/EMP report.</td><td>-</td></tr>
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<tr><td>10</td><td>The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site.</td><td>Controlled blasting techniques using delay detonators and optimum charge per delay will be implemented in this quarry. The details on blasting parameters are given in section 2.9.2 of Chapter 2.</td><td>-</td></tr>
<tr><td>11</td><td>The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences.</td><td>Prior to this project, the PP had not carried out any quarrying operations.</td><td>-</td></tr>
<tr><td>12</td><td>If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines,</td><td rowspan="3">The applied lease area was previously operated by another lessee before 2016. CCR is not applicable. The dimension of existing pits in the area applied for leases as per approved mining plan is given below.<table><tr><th>Pit No.</th><th>Length (Max) (m)</th><th>Width (Max) (m)</th><th>Depth (Max) (m)</th></tr><tr><td>I</td><td>42</td><td>10</td><td>6m (AGL)</td></tr></table></td><td rowspan="3">-</td></tr>
<tr><td>13</td><td>What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines?</td></tr>
<tr><td>14</td><td>Quantity of minerals mined out. · Highest production achieved in any one year · Detail of approved depth of mining. · Actual depth of the mining achieved earlier. · Name of the person already mined in that leases area. · If EC and CTO already obtained, the copy of the same shall be submitted. · Whether the mining was carried out as per the approved mine plan (or EC if</td></tr>
</table>

	issued) with stipulated benches.		
15	All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).	Project coordinates superimposed in satellite imagery and topo map given as Figure No – 3.2 and Figure 3.3. Geology and Geomorphology map are provided in Figure No – 3.24 and Figure No – 3.25, Chapter 3.	111 158 & 159
16	The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc.,	It will be complied after commencement of the mining operation.	-
17	The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan.	Photographs of the site are provided in Figure 2.7 of Chapter-2. There is no standing trees within project site. A safety distance of 10 m has been provided along the boundary to the adjoining Government lands. Tank is situated at 260m on the South side of the lease applied area. There are no other Water bodies (River, Pond, Lake, Odai, Channel, etc.) within a radius of 500m. Green belt is being developed over an area of 0.43.0 Ha. The work of the same is under process.	80
18	The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working	Geological reserves – 9,75,100 m^3 of rough stone and 14,770 m^3 of Topsoil and Mineable Reserves is estimated at 3,70,850 m^3 of Rough Stone and	85

	methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same.	10,000 m^3 of Topsoil. The proposed production of rough stone is estimated as 3,70,850 $m^{3.}$ Methodology and Justification are presented in chapter 2. The anticipated impact and its mitigation measures are detailed in Chapter 4.	
19	The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment.	Complied. Please refer figure 10.1 of Chapter 10.	212
20	The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data	Hydro-geological study report will be incorporated in the Final EIA / EMP report.	-

	and documentation in this regard may be provided.		
21	The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study.	The baseline data were collected (March 2025 to May 2025) for the environmental components including land, soil, water, air, noise, biology, socio-economy, and the results have been discussed in Chapter 3.	115
22	The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind.	Detailed cumulative impact study has been carried and the same is incorporated in the Chapter 7. Accordingly, a detailed Environment Management Plan is prepared considering air, water, noise and soil environment and the details are given in Chapter 10.	196 212
23	Rain water harvesting management with recharging details along with water balance (both monsoon & non-monsoon) be submitted.	Runoff water during rainy season will be collected in the bottom quarry through proper drainage pattern and the collected water will be used for plantation and dust suppression during dry season. Rain water harvesting Plan is given in section 4.3.2 of chapter 4. The water balance is given in chapter 4.	169
24	Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water	Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water	135 & 81

	bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.	bodies, human settlements and other ecological features has been discussed in Section 3.10 of Chapter 3. The land use plan of the project area showing per-operational, operational and post-operational phases are discussed in section 2.4 of Chapter 2.	
25	Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided.	As per the mining plan, there is no overburden anticipated during the entire Rough Stone quarrying operation. The excavated rough stone will be directly loaded into a tipper to the needy crusher/other buyers. Top soil will be preserved in the safety zone and utilized for plantation purpose.	-
26	Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered.	Not applicable. The project is not located in any of the said areas mentioned in the condition.	-
27	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.	Rain water falling in the quarry will be harvested in the sump at the lowest level of the quarry. This sump will act as a settling pond to prevent solids escaping along with discharge, before	169

		outlet. etc. Towards surface runoff management, a garland drain will be constructed around the quarry and will be connected to a settling pond with silt traps. The supernatant clear water from the settling pond will be flow to the downstream users. Rain water harvesting plan is given in section 4.3.2 of Chapter 4.	
28	Impact on local transport infrastructure due to the Project should be indicated.	There is no significant impact on the local traffic due to the proposed project. The traffic density study is given in Chapter 2, Sec 2.11.6.	98
29	A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity.	Flora species within 300 m radius is given in section 3.10.	135
30	A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific.	Detailed Mine Closure plan is given in Chapter 2, sec 2.8.	85
31	As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible.	Accepted. It will be done.	-
32	The purpose of Green belt around the project is to capture the fugitive	The Greenbelt plan is detailed in Chapter 4, Sec 4.4.	170

	emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner.		
33	Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner.	Accepted. Green belt development work is in progress. Proof photographs on green belt will be incorporated in the Final EIA / EMP report.	-
34	A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.	A disaster management plan is prepared and details are given in Chapter 7, Sec 7.3.	200
35	A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period.	A Risk Assessment and management Plan is prepared and given in Chapter 7, Sec 7.2.	196

36	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.	Anticipated Occupational Health impacts of the project is given detailed in Chapter 4. Sec 4.7.4.	187
37	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.	No major impact on public health will be there since the villages are located more than 1km from the lease area. Details of CER and CSR are discussed under Chapter No. 8	-
38	The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.	Detailed Socio-Economic study is carried out and it is given in Chapter 3, Sec 3.12.	150
39	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.	There is no litigation pending against the project.	-
40	Benefits of the Project if the Project is	The project benefits are given in	210

	implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.	Chapter 8.	
41	If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB.	The applied lease was previously operated by other lessee before 2015 and CCR is not applicable	-
42	The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine.	Affidavit for considering EMP for the entire life will be incorporated in the Final EIA/ EMP Report.	-
43	Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.	Noted and agreed.	-
SEIAA Specific Conditions			
1	The authority noted that the subject was placed in the 609th SEAC-I meeting held on 26.08.2025. After detailed discussions, the Authority accepts the recommendation of SEAC-I and decided to grant Terms of	Agreed	

	Reference (ToR) along with Public Hearing for the quantity of 3,70,850 m3 of Rough Stone up to the depth of 81m (61m Above Ground Level And 20m Below Ground Level) as per the approved mining plan, under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC-I & normal conditions & the SEIAA Standard conditions.		
SEIAA Standard Conditions			
Cluster Management Committee			
1	Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry.	There are one existing quarry and nine proposed quarries including this proposal, within a 500-metre radius. The proponent will take the initiative to form a cluster management committee once environmental clearance is obtained for this quarry.	-
2	The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, water sprinkling, tree plantation, blasting etc.,	Agreed and will be complied.	-
3	The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines.	Agreed. The list of members of the committee formed will be submitted to ad/mines after obtaining Environmental Clearance.	-

4	Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network.	Agreed. Details of the Operation plan for cluster mining operations will be submitted once we get environmental clearance for all three quarries proposed in the cluster area.	-
5	The committee shall deliberate on risk management plan pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan.	Risk management plan for the individual quarry is given in this report. As far as cluster working condition is concerned, once the committee is formed, risk management as a cluster including inundation of clusters and the evacuation plan will be elaborated.	-
6	The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the environmental policy devised shall be given in detail.	Environmental policy for the cluster will be framed by the cluster management committee and the policy will be in accordance with EPA Act, 1986 and its amendments, guidelines by MoEFCC/SEIAA and other regulatory bodies. This policy will be displayed in the quarry.	-
7	The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner.	Agreed. It will be complied as mentioned in the Point No.4	-
8	The committee shall deliberate on the health of the workers/staff involved in the mining as well as the health of the public in the vicinity.	Agreed. It will be complied as mentioned in the Point No.4	-
Agriculture & Agrobiodiversity			

9	impacts on surrounding agricultural fields around the proposed mining Area.	There are no Agriculture, forest area and traditional practices within the project area. However, there are some agricultural lands around the project site. It may be affected due to the quarry operation as such dust particles sedimentation in the agricultural land. It will be controlled at the source level by proper dust suppression as such wet drilling, controlled blasting and water sprinkling on the project roads and project surrounding roads. As per Air Quality Modelling, the impact of the air quality limited to 400m radius. So, there is no impact for the Agriculture, Forestry & Traditional practices located within 10km radius.	-
10	impacts on soil flora & vegetation around the project site.	The chemical and physical characteristics of the soil is given in Chapter 3. The anticipated impact and its mitigation measures for soil environment and biological environment are detailed in section 4.4 of Chapter 4 respectively.	132 170
11	Details of type of vegetations including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetations all along the boundary of the proposed mining area shall committed mentioned in EMP.	The details on flora have been provided in Section 3.10 under Chapter 3. There is no schedule I species of animals observed within study area as per Wildlife Protection Act, 1972 and no species falls in vulnerable, endangered or threatened category as per IUCN. There is no endangered red list species	135

		found in the study area	
12	The Environmental Impact Assessment should study the biodiversity, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem.	The ecological details have been provided in Section 3.10 under Chapter 3 and measures have been provided in Section 4.4 under Chapter 4.	135 & 170
13	Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services.	All the essential environmental protective measures will be followed by the proponent to manage the surrounding environment and restore the ecosystem, as discussed in Chapter 4.	163
14	The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock.	The impact of project on the land environment has been discussed in Section 4.2 under Chapter 4.	164
Forests			
15	The project proponent shall detailed study on impact of mining on Reserve forests free ranging wildlife	There are no Reserved Forest / Wild Life Sanctuary within a radius of 1Km. the R.F in buffer zone (10 km radius): Naranamangalam R.F – 4.07 km (NW), Maniyankurichi R.F – 7.39Mkm (SW), Maramareddi palaiyam R.F. – 9.27 km (SW), Velur R.F – 7.38 km (NW) & Siruvachur R.F –7.28 km (NW). The anticipated impact and its mitigation measures for biological environment are detailed in section 4.4 of Chapter 4. The project proponent shall do barbed wire fencing work and develop a green belt around the lease area to prevent	170

		wildlife from entering the site.	
16	The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna	The impacts of the project on ecology and biodiversity have been discussed in Section 4.4 under Chapter 4.	170
17	The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection.	Not Applicable.	-
18	The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site.	There are no Reserved Forest / Wild Life Sanctuary within a radius of 1Km. The R.F in buffer zone: Naranamangalam R.F – 4.07 km (NW), Maniyankurichi R.F – 7.39Mkm (SW), Maramareddi palaiyam R.F. – 9.27 km (SW), Velur R.F – 7.38 km (NW) & Siruvachur R.F –7.28 km (NW). Karaivetti Bird Sanctuary – 25.05 km (S) Impact and its mitigation measures are detailed in Chapter 4.	-
Water Environment			
19	Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within I km (radius) so as to assess the impacts on the nearby waterbodies due to mining	A detailed hydrogeological report will be included in the final EIA/EMP report.	-

	activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period.		
20	Erosion Control measures.	There is no waste generation (OB) in this quarry has been envisaged. However, there may be erosion due the rainy season and that is limited within quarry area. Top soil will be preserved in safety zone and utilized for plantation purpose. The control measures are explained in Chapter 4.	-
21	Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas	Complied. The study details are incorporated in Chapter 3. Anticipated impacts and its mitigation measures are detailed in Chapter 4.	104 & 163
22	The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir.	There is no wastewater generation from this Quarry, so this is not applicable.	-
23	The project proponent shall study and furnish the details on potential fragmentation impact on natural environment by the activities.	Fragmentation impact on the environment may be due to drilling. The anticipated impacts and mitigation measures are discussed in Chapter 4.	163
24	The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible	The Flora and Fauna study covering 10 km radius are detailed in section 3.10 of chapter 3. The impacts anticipated with respect to the environment of the project area is very negligible and it will be minimized	135

	land form changes visual and aesthetic impacts	within the project area. Greenbelt / Plantation will be carried out to enhance the vegetative growth and aesthetic in the safety zone area.	
25	The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components.	The impact of mining on soil environment has been discussed in Section 4.2 under Chapter 4.	163
26	The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites.	The anticipated impact and its mitigation measures for Water Environment are detailed in section 4.3.2 of Chapter 4.	168
27	The EIA shall include the impact of mining activity on the following: a) Hydrothermal/Geothermal effect due to destruction in the Environment. b) Bio-geochemical processes and its foot prints including Environmental stress. c) Sediment geochemistry in the surface streams.	The proposed quarry operation is Opencast method of semi mechanized mining with 5.0m height 5m width the bench. So, the effect of Hydrothermal/Geothermal is not envisaged.	-
Energy			
28	The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilize the Energy shall be furnished	The measures taken to control noise, air, water, and dust have been given under Chapter 4.	163
Climate Change			
29	The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including	This proposed quarry will adopt Opencast method of semi mechanized of mining with less equipment. However, only the best equipment will be used, and it will be properly and regularly maintained. Regular vehicular	-

	control of other emission and climate mitigation activities.	emission tests will be conducted on the transport vehicles to ensure minimal carbon emissions. To further reduce carbon emissions, a good greenbelt plan has been planned.	
30	The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock, soil health and physical, chemical & biological soil features.		
31	Impact of mining on pollution leading to GHGs emissions and the impact of the same on the local livelihood.		
Mine Closure Plan			
32	Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued.	Detailed mine closure plan is given in section 2.10 of Chapter 2.	94
EMP			
33	Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued and the scope for achieving SDGs.	Complied. The details are described in Chapter 10.	212
34	The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan.	Total EMP Cost for 5 years is 20.37 lakhs i.e., Rs.9.36 Lakhs of Capital Cost + Rs.11.01 Lakhs of Recurring Cost (For 5 Years) have been allocated under the EMP budget. The breakup of the same is given in Table 10.2 of Chapter 10.	218
Risk Assessment			
35	To furnish risk assessment and management plan including anticipated vulnerabilities during	Risk assessment and Management plan are detailed in section 7.2, chapter 7.	196

	operational and post operational phases of Mining.		
Disaster Management Plan			
36	To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid,/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued.	Disaster Management plan are detailed in section 7.3, Chapter 7.	200
Others			
37	The project Proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc.	There are no historical places, schools, cemeteries, temples, bird sanctuaries, and wildlife sanctuaries within 300 meters of the proposed project area. In this regard, the project proponent has received an official letter from the Village Administrative Officer, The letter copy enclosed as Annexure – 4.	-
38	As per the MoEF& cc office memorandum F.No.z2-6512017-tA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management plan.	The concerns raised during the public consultation and all the activities proposed will be updated in the final EIA report.	-

39	The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the environment. The ecological risks and impacts of plastic & microplastics on aquatic environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.	Complied. We have framed detail solid waste management system for the project are and the same will be executed by proper awareness and sign boards. The sign boards will be in two language i.e., Vernacular language (Tamil) and common language (English). The plastic waste generation is very negligible and it will be collected from the source level in specific dustbin and disposed through the municipal bins.	-
C. Standard ToR			
1	Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force. w.r.t. the highest production achieved prior to 1994	Not applicable.	-
2	A copy of the document in support of the fact that the proponent is the rightful lessee of the mine should be given.	This proposed project area is classified as Government land and the applicant has obtained tender from the Government.	-
3	All documents including approved mine plan, EIA and public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the	Noted & agreed. All documents including approved mine plan, EIA and Public Hearing are compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and is in the name of	-

	name of the lessee.	the lessee.	
4	All comer coordinates of the mine lease area, superimposed on a High - Resolution Imagery/ topo sheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).	Project area is superimposed on Satellite imagery is enclosed in Figure No. 3.17. Project area boundary coordinates superimposed on Toposheet & Surface Features around the project area covering 10km radius. Geology map of the project area covering 10km radius. Geomorphology Map of the Study Area covering 10 km radius of section 3.13.3 in Chapter 3.	142 & 156
5	Information should be provided in Survey of India Topo sheet in l:50,000 scare indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.	The following map in 1:50,000 Scale: Geology map of the project area covering 10km radius. Geomorphology Map of the Study Area covering 10 km radius of section 3.13.3 in Chapter 3.	156
6	Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.	Not Applicable. The proposed land is Government land, Applicant has obtained tender from Government.	-
7	It should be clearly stated whether the proponent company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus	The proposed quarry is small scale magnitude operation and controlled by the lessee individually by engaging optimum statutory personals. Based on the magnitude of the operation, the PP has framed Environmental Policy and the same is	217

	any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.	incorporated in section 10.1.4 of Chapter 10. The Mines Manager will undertake effective monitoring and implementation of various environmental control measures promptly and effectively and to oversee various environmental management schemes for air quality control, water quality status, noise level control, plantation program, social development schemes, etc in the mine. The organizational chart for the same has been provided in Figure No.10.1, Chapter-10.	
8	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided.	Various risks likely to arise due to mining activities are detailed under section 7.2, Chapter-7. This being an opencast mine, subsidence is not applicable. The impact due to ground vibrations due to blasting is given in para 4.7.2, Chapter-4.	196 & 186
9	The study area will comprise of l0 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.	Noted & Agreed The study area considered for this study is 10 km radius and all data contained in the EIA report such as waste generation etc., is for the Life of the Mine / lease period.	-
10	Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary. national park, migratory routes of fauna, water bodies, human settlements and other	Satellite imagery has been used to study land use and the details of land use in the core and buffer zone is given in figure 3.17 of Chapter 3.	142

	ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.		
11	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.	There is no waste generation anticipated in this quarry operation since the entire excavated material will be utilized. The top soil generated will be utilized for afforestation purpose. Hence, there is no external overburden dump involved.	-
12	A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.	There is no Forest Land involved in the proposed project area. The proposed project area is a government land. Approved Mining Plan is enclosed in Annexure – 2.	-
13	Status of forestry clearance for the broken-up area and virgin forestland	Not Applicable. The proposed project area does not involve any Forest Land.	-

	involved in the Project including deposition of Net Present Value (NPV) and Compensatory Afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.		
14	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act,2006 should be indicated.	Not Applicable. The project doesn't attract Recognition of Forest Rights Act, 2006.	-
15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given.	Naranamangalam R.F – 4.07 km (NW), Maniyankurichi R.F – 7.39Mkm (SW), Maramareddi palaiyam R.F. – 9.27 km (SW), Velur R.F – 7.38 km (NW) & Siruvachur R.F –7.28 km (NW). The impact and its mitigation measures for biological environment are detailed in chapter 4.	-
16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.	The mining lease area and the 10 km buffer zone from the periphery of the core zone is devoid of declared ecologically sensitive features like national parks, biospheres, sanctuaries, etc.	-
17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within l0 km of the	Not Applicable. There are No National Parks, Biosphere Reserves, Wildlife Corridors, and Tiger/Elephant Reserves within 10 km Radius from the periphery	-

	mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlife and copy furnished.	of the project area.	
18	A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present' In case of any scheduled fauna found in the study area. the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.	Flora and fauna composition in the core and buffer zone of the project has been studied through primary field surveys. The details are furnished in section 3.10 of Chapter 3.	135
19	Proximity to Areas declared as 'critically Polluted' or the project areas likely to come under the 'Aravali	Not Applicable	-

	Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities. such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.		
20	Similarly, for coastal projects, a CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease with respect to CRZ, Coastal features such as mangroves, if any, should be furnished. (Note: The Mining projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).	Not Applicable	-
21	R&R Plan/compensation details for the project Affected people (PAP) should be furnished. While preparing the R&R Plan, the relevant State/ National Rehabilitation & Resettlement policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of	The mining activities will be carried out within the mine lease area only. The entire mine lease area of 1.40.0 Ha is a Government Land. There is no population within the ML area. Hence, the question of R& R does not arise.	-

	line departments of the state Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.		
22	One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season); December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of2009, water quality, noise revel, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.	Baseline Data were collected for One Season (Non-Monsoon) March to May 2025 as per CPCB Notification and MoEFCC Guidelines and Detailed in Chapter - 3.	112
23	Air quality modeling should be carried	Modelling is done using AERMOD and	174

	out for prediction of impact of the project on the air quality of the area. lt should also take into account the impact of movement of Vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.	the projected values are found to be within the norms. Hence, there is no major impact due to this mining project. The cumulative impact of mining is also studied and the same is found to be within norms. The details are given in section 4.5.6 of Chapter 4 and Chapter 7.	
24	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.	The entire water requirement for the project is 2 KLD which will be sourced from outside agencies. The water balance diagram is shown in Chapter 4	169
25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.	Not Applicable. The required water will be outsourced from the nearby village.	-
26	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.	Details of the water conservation plan are given in chapter 10. Rainwater harvesting plan are detailed in section 4.3.2 of Chapter 4.	168
27	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary	Impact Studies and Mitigation Measures of Water Environment including Surface Water and Ground Water are discussed	168

	safeguard measures, if any required, should be provided.	in Section 4.3.2	
28	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-ali4 shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.	The quarrying activity will not intersect ground water table as quarrying is proposed upto a depth of 81m (61m Above Ground Level and 20m Below Ground Level) and water table is found at a depth of 67 m BGL.	-
29	Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.	Not Applicable No stream passing through the mine lease area.	-
30	Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.	Altitude of the area: 185 m from MSL Ultimate Depth: 81 m BGL (61m above ground level and 20m below ground level) Ground water: 67 m BGL.	-
31	A time bound Progressive Greenbelt	Greenbelt Development Plan &	170

	Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.	Recommended Species proposed for Greenbelt Development are detailed in Section 4.4. 0.43.0 hectares of land are allotted for greenbelt development.	
32	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered.	The Traffic density survey was carried out to analyse the impact of transportation in the study area as per IRC guidelines 1961 and it is inferred that there is no significant impact due to the proposed transportation from the project area.	-

	Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.		
33	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.	Temporary Infrastructure & other facilities will be provided to the Mine Workers after the grant of quarry lease and the same has been discussed in Section 2.11.5 of Chapter 2.	98
34	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.	At the conceptual stage the quarried-out land will be fenced and lower benches will be allowed to collect rain water to act as a temporary reservoir and Greenbelt development will be carried out on the top bench, unutilized areas and haul roads. Mine closure plan is detailed in Section 2.10 of Chapter 2.	94
35	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.	Details of occupational health and safety aspects are given under the Section 4.7.4 & Section 10.4.	187
36	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should	No major impact on public health will be there since the villages are located more than 1km from the lease area.	-

	be detailed along with budgetary allocations.		
37	Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.	This project provides employment to 32 Nos. Local people will be hired for unskilled labour. Through CSR, nearby schools, hospitals will be benefitted. For CSR, INR 3.0 Lakh is allocated. Based on the demand of the people during public hearing, further funds will be allocated, if necessary.	-
38	Detailed Environmental Management Plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project.	Environmental Management plan details are given in Chapter 10.	218
39	Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.	During public hearing process, the opinions and demands of the people will be noted. The replies and commitment made by the proponent along with time bound action plan wherever applicable will be provided in Final EIA/EMP report.	-
40	Details of litigation pending against the project, if any, with direction /order paced by any Court of Law against the Project should be given.	There is no litigation pending against the project.	-
41	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.	Project Cost is Rs. 618.87 Lakhs CER Cost is Rs.3.0/- lakhs EMP Cost Total EMP Cost for 5 years is 20.37	-

		lakhs i.e., Rs.9.36 Lakhs of Capital Cost + Rs.11.01 Lakhs of Recurring Cost (For 5 Years)	
42	A Disaster management Plan shall be prepared and included in the EIA/EMP Report.	Disaster management plan are provided under section 7.3 of Chapter-7.	200
43	Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.	Detailed in Chapter 8.	210
44	Besides the above, the below mentioned general points are also to be followed.		
A	All documents to be properly referenced with index and continuous page numbering.	Yes, Complied.	-
B	Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.	Yes, Complied.	-
C	Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/ NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.	Yes, Complied.	-
D	Where the documents provided are in a language other than English, an English translation should be provided.	Yes, Complied.	-
E	The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be	Yes, Complied.	-

	filled and submitted.		
F	While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J- l 1013/41/2006-IA.11 0) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.	Noted & agreed	-
G	Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the ToR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the pH again with the revised documentation.	Yes, Complied.	-
H	As per the circular no. J-11011/1618/2010-IA.ll (l) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the Environment Clearance the existing operations of the project, should be obtained from the Regional office of Ministry of Environment, Forest and Climate Change, as may be applicable.	Yes, Complied.	-

I	The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.	Yes, Complied.	-

CHAPTER 1

INTRODUCTION

1.1 PURPOSE OF THE REPORT

Environmental Impact Assessment (EIA) is the management tool to ensure the sustainable development and it is a process, used to identify the environmental, social and economic impacts of a project prior to decision making. It is a decision-making tool, which guides the decision makers in taking appropriate decisions for any project.

EIA systematically examines both beneficial and adverse consequences of the project and ensures that these impacts are taken into account during the project designing. It also reduces conflicts by promoting community participation, information, decision makers, and helps in developing the base for environmentally sound project.

Rough Stone are the major requirements for construction industry. This EIA report is prepared by considering Cumulative load of all proposed & existing quarries located within 500 m radius of the project area.

Thiru. P. Velmurugan proposes to operate Rough Stone Quarry over an extent of 1.40.00 Ha Government Poramboke Land in S.F.No.10/1 (Block-3) in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State and ToR obtained vide ToR Identification No. TO25B0108TN5887407N, Dated: 25.09.2025.

The applied lease area was previously operated by another lessee before 2015 and CCR is not applicable. The existing pit dimension as mentioned in the approved mining plan is presented below.

Ultimate Pit dimension (M) end of Mining plan Period			
Pit No	Length (max) in (m)	Width (Avg) in (m)	Depth(max) in(m)
I	42	10	6m (AGL)

This proposed project is categorized under category "B1" Activity 1(a) (mining lease area in cluster situation). This cluster includes the one existing quarry and nine proposed Quarries including this proposed Quarry. The existing and proposed quarries located within 500m radius are detailed in below Table.

Table 1.1 – Details of Quarries within 500m Radius

S.No	Name of the Quarry Owner	S.F. Nos & Village	Lease period	Area (Ha)
a. Existing Quarry				
1.	M.Baskaran, S/o.muthuredivar, thiruvalakuruchi, Padalur (East) village, Alathur Taluk, JPerambalur district.	1/7f(P), 1/7G(P),1/3(P) etc. Alathur, Padalur(E)	3.8.2024 to 22.8.2034	1.33.0
b. Abandoned Quarry				
1	B.Senthilkumar, S/o.P.Balagopal. 454,4th Cross Road, Shanmugam Nagar, Uiyakondam, Thirumalai, Trichirappalli	10/1 (Part), Alathur / Padalur(E)	12.04.2006 to 11.04.2016	1.00.0
2	R.Sureshbabu, S/o.V.Rajagopal, No.244, Philomina Nagar, 3rd Street, Nanjikottai Road, Thanjavur	10/1 Block 17, Alathur / Padalur(E)	23.05.2007 to 22.05.2017	1.00.0
3	S.N.Vinoba, S/o. S.Nagarajan, 2/163, 2nd cross, Lakshmipuram, galam. Trichy-10	10/1 Block 5, Alathur / Padalur(E)	26.04.2007 To 25.04.2012	1.00.0
4	M.Raja, S/o. Muthusamy, No.211/1, Mannarpillai Street, Srirangam, Trichy-6	10/1 Block 3, Alathur / Padalur(E)	07.06.2007 to 06.06.2012	1.00.0
5	D.Raja chithambaram, S/o. Duraisamy, No.236, Reddiyar Street, Sirdevimangalam, Manachanallur Taluk, Trichy District.	10/1 Block 6, Alathur / Padalur(E)	11.05.2007 to 10.05.2012	1.00.0
6	V.Panneerselvam, S/o.Veerasamy, South Street, Thennamanadu Post, Orathanadu Taluk, Thanjauoor District	10/1 ,Block 22, Alathur Padalur(E)	31.05.2011 to 30.05.2021	1.00.0
7	D.Sakthivel, S/o. P.K.Duraisamy, Perumal Kovil Street, Siruvachur, Perambalur.	10/1 Block No. 13, Alathur/ Padalur(E)	16.05.2007 to 15.05.2012	1.20.0
8	Thiru.A.T.Natarajan, S/o.Thiruvanaigoundar, Irur Village, AlathurTaluk, Perambalur District.	713/5 etc Alathur, Padalur(E)	28.11.2018 to 27.11.2023	1.34.0

9	M.Ravi, S/o.Muthukrishnan, No2/78, Malaiyadivaram, Chettikulam Post, Kunnam TK, Perambalur District.	10/1 Block 20 Alathur Padalur(E)	11.05.2007 to 10.05.2017	1.00.0
10	K.Mathiyalagan, S/o.Kanagasabi, State Bank Colony, Kumbakonam.	10/1 Block 18 Alathur Padalur(E)	23.05.2007 to 22.05.2017	1.00.0
c. Proposed Quarry				
1.	Thiru.P.Velmurugan No. 1, Royal mahalakshmi Nagar, Virudhachalam, Cuddalore - 606 001.	10/1 (Block 3) Alathur/ Padalur (East)	-	1.40.0
2.	Thiru. R.Rajkumar S/o. Rajaram, No.4C, 4th floor, Sivam Sri Madhav, Kuttimani Nagar, Pichandar kovil, Trichy – 621 216.	10/1 (Block 1) Alathur/ Padalur (East)	-	1.50.0
3.	Thiru.Hariharan. L No. 9, Dhanalakshmi Street Postal Nagar, Nemilicheri Chrompet, Kancheepuram District 600 044..	10/1,(BÎock 2), Atathur / Padalur (East)	-	1.40.6
4.	M/s. Rajamalai Metals No. 3/350 H, Jeya Complex, Main Road, Padalur,Perambalur - 621 109.	10/1 (Block 4) Alathur / Padalur (East)	-	1.40.0
5.	M/s.SR Mines and Minerals Flat No.2/ 1, Room No.4,Ramanujam Building,V.N Nagar,	10/1 (Block 6) Alathur /l Padalur (East)	-	2.20.0
6.	Thiru.M.Thangaraj S/o. Maran, No. 158/34A, Abiramapuram west, Collector Office Road, Perambalur - 621 212.	10/1 (Block 5) Alathur/ Padalur (East)	-	2.10.0
7.	M/s.Mars Mines No.24/7, Padalur East, Alathur Taluk, Perambalur -621 109.	10/1 (Block 7) Alathur/ Padalur (East)	-	1.30.0
8.	Thiru.Vinoth R 44/4 Subbramaniyar Kovil street, Tittakudi, Cuddalore District - 606 106.	10/1 (Block 8) Alathur/ Padalur (East)	-	1.20.0
9.	Thiru.P.Velmurugan No.1, Royal 4 mahalakshmi Nagar, 5 Virudhachalam, Cuddalore - 606 001	1071 (Block 13) Alathur/ Padalur (East)	-	1.00.0
Total Area Under Cluster		**13.43.74 Ha**		

Cluster area calculated as per MoEFCC Notification S.O. 2269(E) Dated 1st July 2016. Satellite image of Quarries in Cluster is shown in Fig 1.1.

As per MoEFCC OM: F.No. L-11011/175/2018-IA-II(M), dated 12.12.2018, the EIA/EMP report has to be prepared for the cluster area based on ToR recommended by SEIAA. Therefore, the applicant applied for ToR through Parivesh website vide online proposal no. SIA/TN/MIN/544501/2025, Dated 11/07/2025. The ToR proposal was placed in 609th SEAC meeting, dt 26.08.2025 and 888th SEIAA meeting, dated 17.09.2025. Then ToR has been issued by the SEIAA vide ToR Identification No. TO25B0108TN5887407N, Dated: 25.09.2025 to prepare the draft EIA report as per the recommended ToR for conducting Public hearing and obtaining Environmental Clearance from the SEIAA.



Figure.1.1 Satellite Image showing cluster quarries

1.2 IDENTIFICATION OF PROJECT AND PROJECT PROPONENT

1.2.1 IDENTIFICATION OF PROJECT

Table -1.2 Project Identification

Name of the Project	Rough Stone Quarry of Thiru. P. Velmurugan
S.F No.	10/1 (Block-3)
Location of the Project	Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Extent	1.40.0 Ha
Type of Land	Government Poramboke Land

1.2.2 IDENTIFICATION OF PROJECT PROPONENT

Table -1.3- Details of Project Proponent

Name of the Project Proponent	Thiru. P. Velmurugan
Communication address	No.1, Royal Mahalakshmi Nagar, Virudhachalam, Cuddalore – 606 001.
e-mail Address	veluvri1971@gmail.com
Mobile No.	7358771411

1.3 BRIEF DESCRIPTION OF THE PROJECT

1.3.1 NATURE AND SIZE OF THE PROJECT

The quarrying operation is proposed to be carried out by Opencast Mechanized Mining Method with Drilling and Blasting by forming 5.0 m bench height and 5.0 m bench width. Excavator and tippers are proposed for Loading and transportation.

Table – 1.4 Brief Descriptions of the Project

Name of the Quarry	Rough Stone Quarry of Thiru. P. Velmurugan
Toposheet No	58 I/16
Latitude	11°06'54.84"N to 11°06'58.07"N
Longitude	78°50'26.79"E to 78°50'33.65"E
Altitude of the area	185 m (MSL)
Proposed depth of mining (for five years)	81m (61m above ground level and 20m below ground level)
Geological Resources	Rough Stone: 26,81,525 Ts / 9,75,100 m^3

<table>
<tr><td></td><td colspan="2">Top Soil: 29,450 Ts / 14,770 m^3</td></tr>
<tr><td>Mineable Reserves</td><td colspan="2">Rough Stone: 10,19,837.50Ts / 3,70,850 m^3
Top Soil: 20,000Ts / 10,000 m^3</td></tr>
<tr><td>Proposed production quantity for five years (upto 81m (61m above ground level and 20m below ground level))</td><td colspan="2">Rough Stone: 10,19,837.50Ts / 3,70,850 m^3</td></tr>
<tr><td>Ultimate Pit Depth</td><td colspan="2">190m (L) x 50m (W) x 81m (61m above ground level and 20m below ground level)</td></tr>
<tr><td>Water Level in the area</td><td colspan="2">67 m BGL</td></tr>
<tr><td>Method of Mining</td><td colspan="2">Opencast Mechanized Mining Method with Drilling and Blasting</td></tr>
<tr><td>Topography</td><td colspan="2">The area applied for quarry lease is exhibits hilly terrain covered by covered by Charnockite formation. The massive Charnockite formation is noticed below 1 m (avg) Top soil and sloping towards southwest side of the area, the altitude of the area is above 185m (maximum) from MSL.</td></tr>
<tr><td>Machinery Proposed</td><td>Jack Hammer – 32 mm Dia</td><td>5 Nos</td></tr>
<tr><td></td><td>Compressor</td><td>2 Nos</td></tr>
<tr><td></td><td>Excavator – 0.9 Cu.m</td><td>2 Nos</td></tr>
<tr><td></td><td>Tipper (10/20 Ts)</td><td>5 Nos</td></tr>
<tr><td>Environmental Setting within 500m Radius</td><td colspan="2">Tank –260 km (S)</td></tr>
<tr><td>Details of Habitation</td><td colspan="2"><table>
<tr><th>S. No</th><th>Name of the Village</th><th>Approximate distance & Direction from lease applied area</th><th>Approximate population</th></tr>
<tr><td>1.</td><td>Pudhukurichi</td><td>3.0km - NE</td><td>500</td></tr>
<tr><td>2</td><td>Alathur</td><td>1.3km – NW</td><td>1500</td></tr>
<tr><td>3</td><td>Padalur</td><td>1.2Km-SE</td><td>400</td></tr>
<tr><td>4</td><td>Padalur west</td><td>2.5km-SW</td><td>2000</td></tr>
</table></td></tr>
<tr><td>Proposed Manpower Development</td><td colspan="2">Permanent: 14 Nos., Temporary: 18 Nos.,</td></tr>
<tr><td>Water Requirement &</td><td colspan="2">The water requirement for drinking – 0.5 KLD,</td></tr>
</table>

Source	dust suppression – 1.0 KLD and green belt – 0.5 KLD is about 2 KLD of water is required. The required water will be procured from outside agencies.
Greenbelt Development	The safety zone of 0.43.0 Ha will be developed with about 430 Nos. of plantation.
Fuel Requirement	2,96,680 (L) (Entire Project Life)
Project Cost	Rs. 618.87 Lakhs (Including operational + Fixed Asset + EMP cost).
EMP Cost	Total EMP Cost for 5 years is 20.37 lakhs i.e., Rs.9.36 Lakhs of Capital Cost + Rs.11.01 Lakhs of Recurring Cost (For 5 Years)
CER Cost	Rs. 3.0 Lakhs
Applicability of CRZ Clearance	Not Applicable

1.3.2 NATURE OF THE PROJECT

Sector	1(a) Non-Coal Mining
Type	Already operated by another lessee before 2015
Category	B1 (Cluster Situation)
Mineral	Minor mineral of Rough Stone

1.3.3 LOCATION OF PROJECT

The proposed Quarry lease area is situated at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State. The area lies in the northern Latitude :11°06'54.84"N to 11°06'58.07"N eastern Longitude :78°50'26.79"E to 78°50'33.65"E. Location of the proposed project is shown in Figure 2.1 and the satellite imagery of the project site is shown in Fig 2.2. The details of Environmental Sensitivity within 1km radius are shown below:

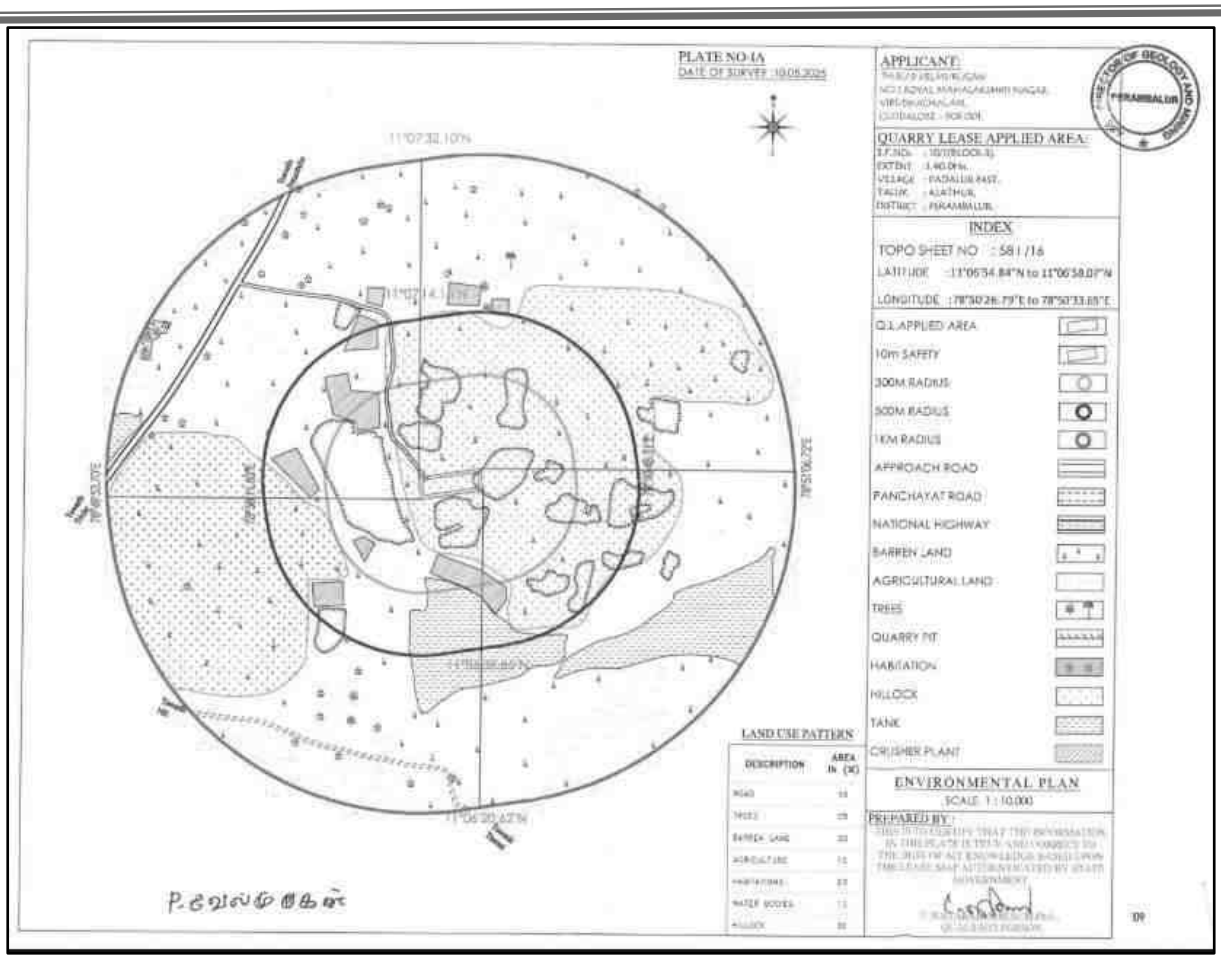


Figure 1.2 – Environmental Settings Map

1.4 IMPORTANCE OF THE PROJECT TO THE REGION

Rough stone will continue to be a staple in construction, decoration and industry for years to come. As recycling picks up, mining and quarries may slow down, but we will always need rough stone in general construction and industry.

1.5 REGULATORY COMPLIANCES

Understanding of the applicable environmental legislative framework is crucial for understanding the scope of the EIA study. With respect to prevention and control of environmental pollution, the following Acts and Rules of MoEFCC (Ministry of Environment Forests and Climate Change), GoI (Government of India) govern the proposed project. The applicable environmental legislation for the proposed mining project is detailed below,

- Environment protection Act, 1986
- EIA Notification, 2006 & Subsequent amendments

- Water Pollution (Prevention & Control) Act, 1974
- Air Pollution (Prevention & Control) Act, 1981
- Noise Pollution (Regulation 7 Control) Rules, 2000
- Mines Act,1952
- Tamil Nadu Minor Mineral Concession Rules, 1959
- Mines and Minerals (development and regulation) Act,1957
- Minor Minerals Conservation and Development Amendment Rules 2018
- State Minor Mineral Concession Rules (GMMCR), 2017
- Explosive Act ,1884
- Explosive Rules,2008
- Hazardous and other Wastes (management and Transboundry Movement) Rules, 2016
- Batteries (Management and Handling) Rules 2010
- Solid Waste Management Rule 2016

1.5.1 PRESENT LEGAL STATUS

Table 1.5 – Present Legal Status

Description	Issuing Authority	Status	Letter number	Date	Reference
Precise Area Communication	Assistant Director, Department of Geology and Mining, Perambalur	Received	Rc.No.125/G&M/2025	09.05.2025	Annexure - 1
Mine Plan Approval Letter	Assistant Director, Department of Geology and Mining, Perambalur	Approved	Rc.No.125/G&M/2025	13.06.2025	Annexure-2
500m radius Cluster Letter	Assistant Director, Department of Geology and Mining, Perambalur	Obtained	Rc.No.125/G&M/2025	13.06.2025	Annexure-3
VAO NOC for features within 300m radius	VAO, Padalur (East)	obtained	-	17.06.2025	Annexure-4

1.5.2 SCREENING

As per the Environmental Impact Assessment (EIA) Notification dated 14th September 2006 and its subsequent amendments the proposed quarry mining project falls under 'Category B1(Cluster Situation)', which requires Environmental Clearance from the State Environmental Impact Assessment Authority (SEIAA). The project proponent has appointed M/s. Global Mining Solutions, Salem, who are accredited by the National Accreditation Board for Education and Training (NABET), Quality Council of India (QCI), New Delhi, under the registration number NABET/EIA/23-26/SA 0241. Their role is to carry out an Environmental Impact Assessment (EIA) and Environmental Management Plan (EMP) study in compliance with the Ministry of Environment, Forest and Climate Change (MoEFCC) requirements.

1.5.3 SCOPING

The proposal was placed in the 609th meeting of SEAC on 26.08.2025. Based on the presentation and documents furnished by the project proponent, SEAC decided to recommend the proposal for the grant of Terms of Reference (ToR) to SEIAA and SEIAA recommended ToR in its 888th meeting dated 17.09.2025.

1.5.4 SCOPE OF THE STUDY

In line with the prescribed Terms of Reference (TOR), the area comprising 10 km radius around the proposed mine lease boundary is considered as the study area. The EIA/EMP report has been prepared following the generic structure specified in the EIA Notification 2006. The detailed studies have been conducted as per prescribed Standard TOR issued by SEIAA, Tamil Nadu vide ToR Identification No. TO25B0108TN5887407N, dated: 25.09.2025. The point wise compliance for the ToR has been incorporated in this EIA/EMP report.

The main scope of the EIA study is to quantify the cumulative impact in the study area due to cluster quarries and formulate the effective mitigation measures for this applied project area. A detailed account of the emission sources, emissions control

equipment, background Air quality levels, Meteorological measurements, Dispersion model and all other aspects of pollution like effluent discharge, Dust generation etc., have been discussed in this report. The baseline monitoring study has been carried out during the Period of March 2025 – May 2025 for various environmental components so as to assess the anticipated impacts due the cluster quarry projects on the environment and suggest suitable mitigation measures for likely adverse impacts due to this proposed project.

The scope of study broadly covered as below,

- Literature review and collection of secondary data relevant to the study area.
- Establish the baseline environmental aspects in and around the proposed project covering 10 km radius.
- Identify various existing pollution loads due to various mining activities.
- Predict incremental levels of pollutants in the study area due to the proposed operations.
- Establishing and analyzing demographic profile including sex ratio, literacy rate, SC/ST, workers classification, land use categorization, etc in the project influenced area
- Evaluate the predicted impacts on various environmental attributes in the study area by using scientifically developed and widely accepted environmental impact assessment methodologies.
- Prepare an Environment Management Plan (EMP) outlining the measures for improving the environmental quality and identify critical environmental attributes that are required to be monitored in the post-project scenario.
- To assess the impacts on human settlement in the project influence area Socio-Economic Assessment
- Cumulative impact assessment for the quarries in cluster.

1.6 NEED AND JUSTIFICATION OF THE PROJECT

- Proposed mining project will fulfill the local market requirement for real estate and infrastructure industry. This project will also provide employment to local people helping them earn livelihood.
- Employment generated consequent to the mining activity in the project will be benefit local and rural population and will have multiplier effects on local economy.
- The Project will give tremendous boosts to the local and regional economy benefiting the population.
- The social benefits arising out of this proposal can be expressed in terms of increase in the standards of living of local population, educational opportunities, training and development of skills etc.

1.7 STRUCTURE OF THE REPORT

As per the new guidelines of the MoEF & CC the report has been divided into the following chapters and presented as follows:

1. Introduction

This chapter describes the profile of the project proponent, name and contact address with email, project consultants, the purpose of the project, brief description of the project, applicable environmental regulations, objectives and methodology for EIA studies etc.

2. Project Description

This chapter gives a brief description of the project such as the type of project, need for the project, its location, approachability, layout, etc of the proposed project, the project implementation schedule, estimated cost of development etc.

3. Description of the Environment

This chapter presents details of the baseline environmental status for microclimate, air quality, noise, water quality (surface and ground), soil quality, flora, fauna and socioeconomic status etc.

4. Anticipated Environmental Impacts & Mitigation Measures

This chapter discusses the possible sources of pollution and environmental impacts due to the project during operation phases and suggests the mitigation measures.

5. Analysis of Alternatives (Site and Technology)

This chapter discusses the analysis of the various alternatives for the technology as well as the site and gives the selection of the most feasible alternative.

6. Environmental Monitoring Program

This chapter discusses the details about the environmental monitoring program during operation phases. The technical aspects of monitoring the effectiveness of mitigation measures are covered in this chapter.

7. Additional Studies

This chapter covers information about the additional studies conducted for this project such as the Risk Analysis, Emergency Response and Disaster Management Plan.

8. Project Benefits

This chapter discuss to improvements in the Physical and Social Infrastructure and presents the benefits from this project.

9. Environmental Cost Benefit Analysis

This Chapter involves identifying, quantifying, and, where possible, assigning monetary values to the positive and negative environmental impacts of a project.

10. Environmental Management Plan

This chapter deals with the EM for the proposed sand mining projects and indicates the measures proposed to minimize the likely impacts on the environment during and operation phases and budgetary allocation for the same.

11. Summary and Conclusion

This chapter deals with the overall justification for implementation of the project and explanation of how, adverse effects have been mitigated.

12. Disclosure of Consultant Engaged

This chapter deals with the details of consultants engaged and the NABET accreditation details of environmental consultants.

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CHAPTER 2

PROJECT DESCRIPTION

2.1 TYPE OF THE PROJECT

The proposed activity is the extraction of Rough Stone quarry by open cast mechanized mining method.

This project proposed to produce 10,19,837.50 Ts / 3,70,850 m^3 of Rough Stone for the period of 5 years with ultimate depth up to 81 m (61m above ground level and 20m below ground level).

2.2 NEED FOR THE PROJECT

Rough stone is one of the important materials for the building construction. The rough stone is used as both as coarse aggregate and fine aggregate after the proper sizing of stone. The coarse and fine aggregate are essential for preparing concrete which is used in foundation, beam, column, roof slab work of the buildings. The infrastructure is the sign of development of nation. So, it is very need to excavate the rough stone for economic and infrastructure development of our Nation.

2.3 LOCATION OF THE PROJECT

This is a Rough Stone Quarry located in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State. The area lies in the north latitude of 11°06'54.84"N to 11°06'58.07"N and eastern longitude of 78°50'26.79"E to 78°50'33.65"E and toposheet number 58 I/16. Location of the proposed project is shown in Figure 2.1 the satellite imagery of the project site is shown in Figure 2.2.

This proposed project area is classified as Government Poramboke Land & does not fall within 10 km radius of any Eco – sensitive zone, Wild life Sanctuary, National Park, Tiger Reserve, Elephant Corridor and Biosphere Reserves. The M.L area details are presented in below Table.

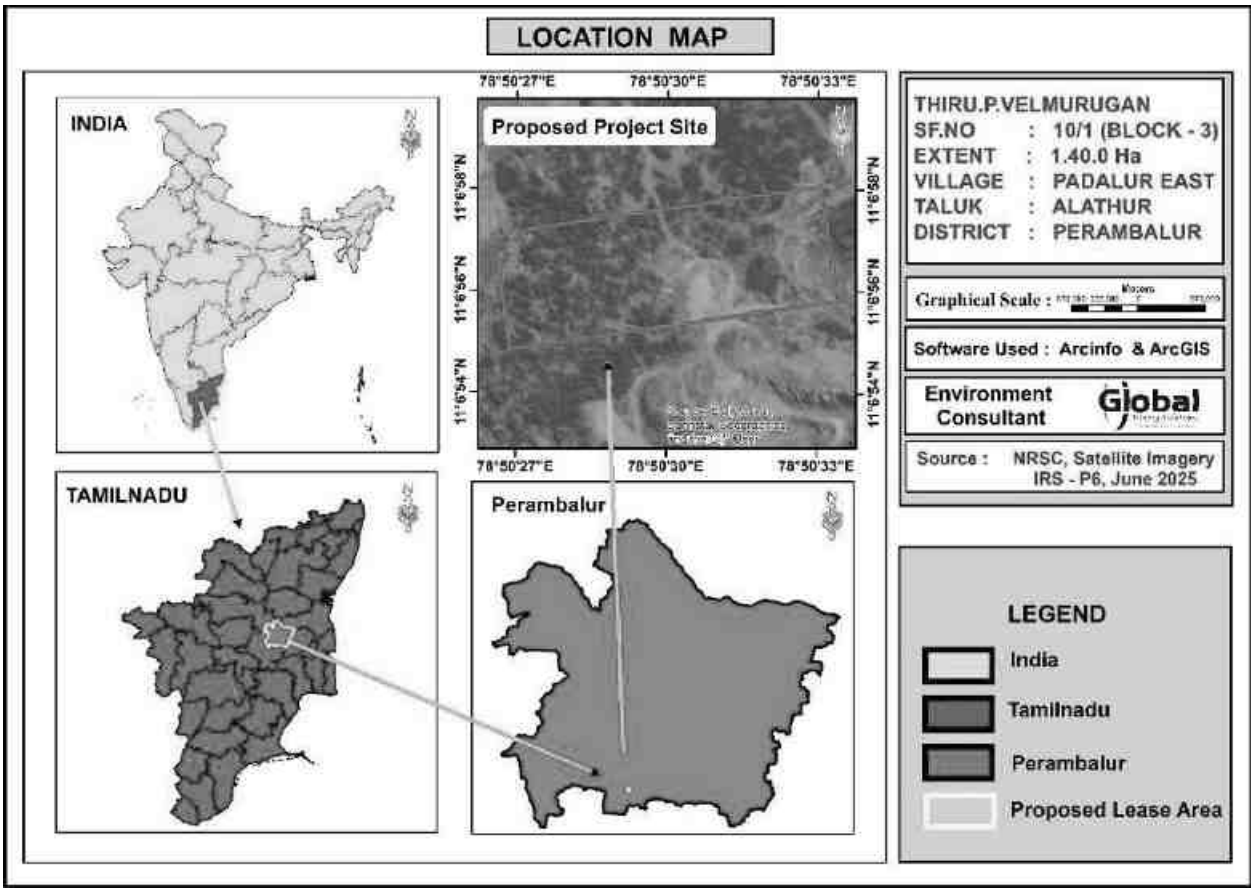


Figure 2.1 Location Map

Table 2.1 Boundary Coordinates of the Project Site

Corners	Co- ordinates	
	Latitude	Longitude
1	11° 06' 57.09"N	78° 50' 26.79"E
2	11° 06' 58.07"N	78° 50' 33.31"E
3	11° 06' 55.81"N	78° 50' 33.65"E
4	11° 06' 54.84"N	78° 50' 27.14"E

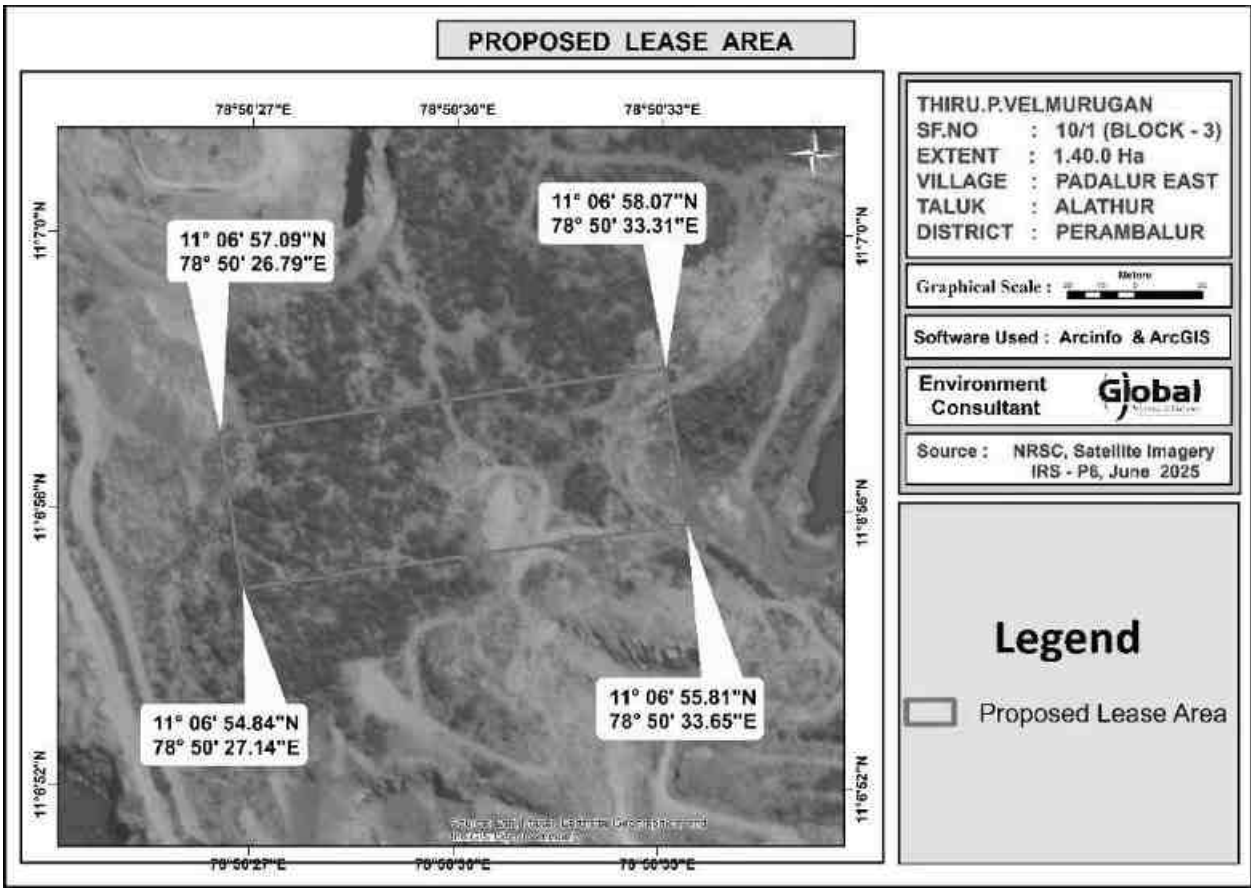


Figure 2.2 Google Image of the project site with Boundary Coordinates

Table 2.2 Mine Lease Area and its Ownership

Location	S.F. No	Area in Ha	Patta No.	Patta Name
Padalur (East) Village, Alathur Taluk, Perambalur District, Tamilnadu	10/1 (Block-3)	1.40.0	-	It is a Government Poramboke Land. PP has obtained the tender from the government Attached as Annexure
Total		**1.40.0**		

Table 2.3 Site Connectivity

Nearest Roadway	The National Highway (NH-38) Viluppuram – Trichy is about 0.8km on Northwest side of the area. The State Highway (SH-142) Perambalur – Thuraiyur is about 11.9Km on Northwest side of the area.
Nearest Village	Padalur west – 1.2 km (SE)
Nearest Railway	Sillakkudi RS – 21.03 km (E)
Nearest Airport	Tiruchirapalli Airport -41.05km (SW)

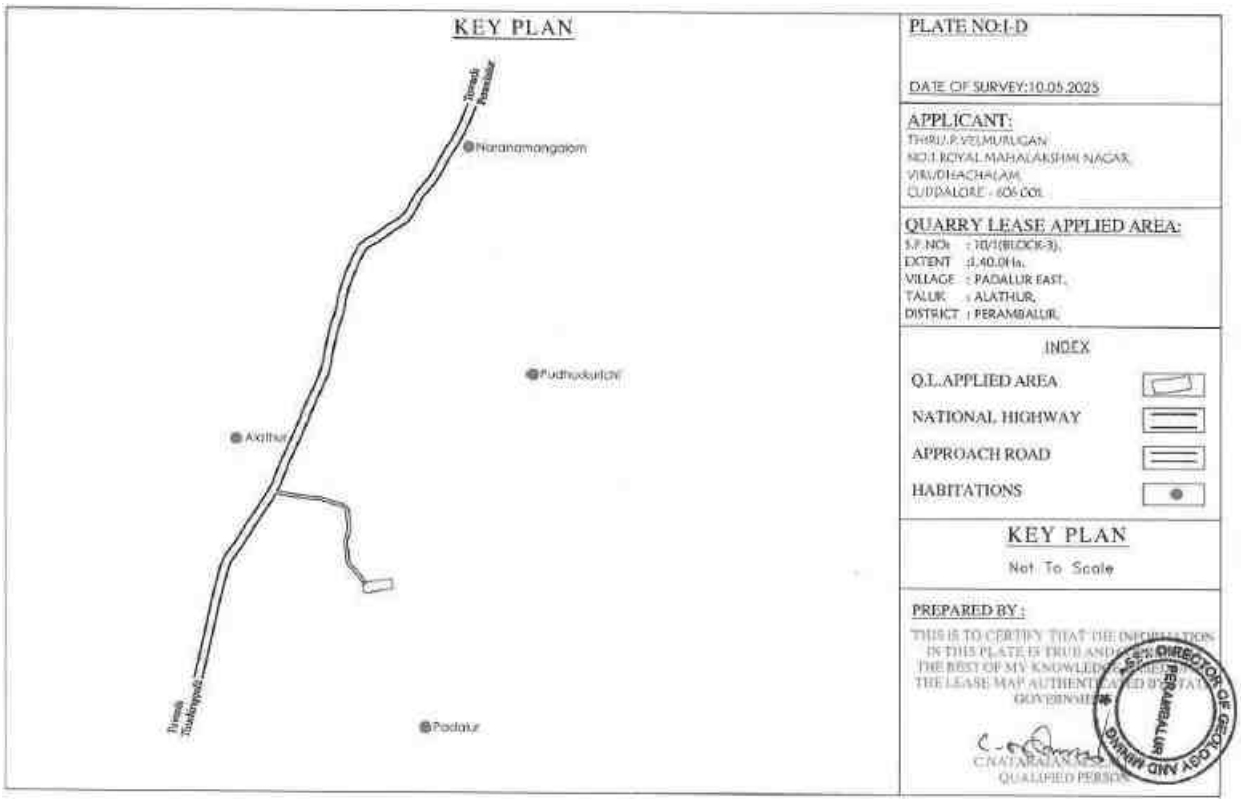


Figure 2.3 Site Connectivity Map

Table 2.4 Salient features of the Project

S. No.	Particulars	Details
1.	Proponent Name	Thiru. P. Velmurugan
2.	Proposed project	Rough Stone Quarry of Thiru. P. Velmurugan
3.	Extent	1.40.00 Ha and the cluster area within 500 m radius including the proposed mine is 13.43.74 Ha > 5 Ha
4.	Location	S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State
5.	Co-ordinates of the project site	Latitude :11°06'54.84"N to 11°06'58.07"N Longitude :78°50'26.79"E to 78°50'33.65"E
6.	Topography	Hilly Terrain
7.	Site Elevation above MSL	185 m from MSL
8.	Topo Sheet No.	58 I/16
9.	Minerals of Mine	Rough Stone
10.	Proposed production in m3	10,19,837.50 Ts/ 3,70,850 m^3 of Rough Stone up to the depth of 81m (61m above ground level and 20m below ground level) for the period of 5 years.
11.	Ultimate Depth of mining	81m (61m above ground level and 20m below ground level)
12.	Method of Mining	Opencast Mining with a bench height of 5.0 m and bench width of 5 m is proposed
13.	Drilling/Blasting	Drilling and controlled Blasting is proposed
14.	No. of Working days	300 Days
15.	Water requirement & Source	2.0 kLD and will be sourced from local vendors
16.	Manpower	32 Nos.
17.	Project Cost	Rs. 618.87 lakhs
18.	Mining Plan Approval	Assistant Director, Department of Geology and Mining, Perambalur vide Rc. No. 125 /2025 (Mines)

		dated 13.06.2025
19.	Safety Zone	0.43.0 Ha will be maintained as safety zone and tree saplings will be planted in this area
20.	Ground water level	67m in summer and 64m in rainy seasons
21.	Distance of Stone Crusher	200 m, W
22.	Previous History & CCR	The applied lease area is already operated by another lessee before 2015. Hence CCR is not applicable

Table 2.5 Environmental Settings of the project site

S. No.	Particulars	Details
1.	Nearest Highway	The National Highway (NH-38) Viluppuram – Trichy is about 0.8km on Northwest side of the area. The State Highway (SH-142) Perambalur – Thuraiyur is about 11.9Km on Northwest side of the area.
2.	Interstate Boundary	Not Applicable
3.	Nearest Railway Station	Sillakkudi RS – 21.03 km (E)
4.	Nearest Airport	Tiruchirapalli Airport -61.05km (SW)
5.	Nearest Village	Padalur 1.2 km (SE)
6.	Water bodies	Tank –260km (S) Tank – 620m (SE), Maruthadi Eri-1.35Km (SW), Therani Big Lake-4.16Km(SE), Nanthai River – 4.3 km (S)
7.	Reserved Forest	Naranamangalam R.F – 4.07 km (NW), Maniyankurichi R.F – 7.39Mkm (SW), Maramareddi palaiyam R.F. – 9.27 km (SW), Velur R.F – 7.38 km (NW) & Siruvachur R.F –7.28 km (NW)
8.	Eco Sensitive Zone	Nil within 10km Radius

	and Wildlife Sanctuary (Notified)	Karaivetti Bird Sanctuary – 25.05 km (S)
9.	Archaeological important places	Nil within 10 km radius
10.	Defense Installations	Nil within 10 km radius
11.	Nearest Port	Nil within 10 km radius
12.	Seismic Zone	Nil within 10 km radius

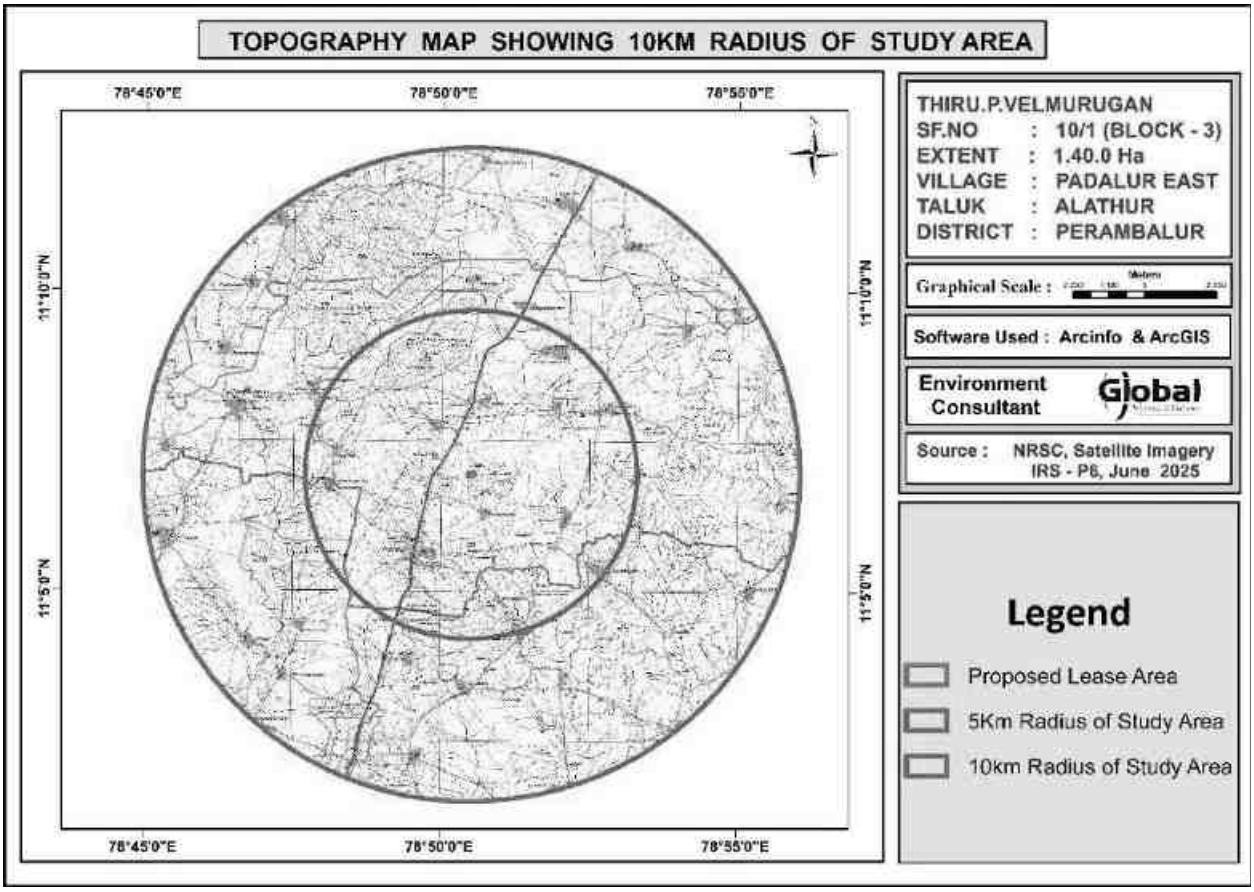


Figure 2.4 10km Radius TOPO Map

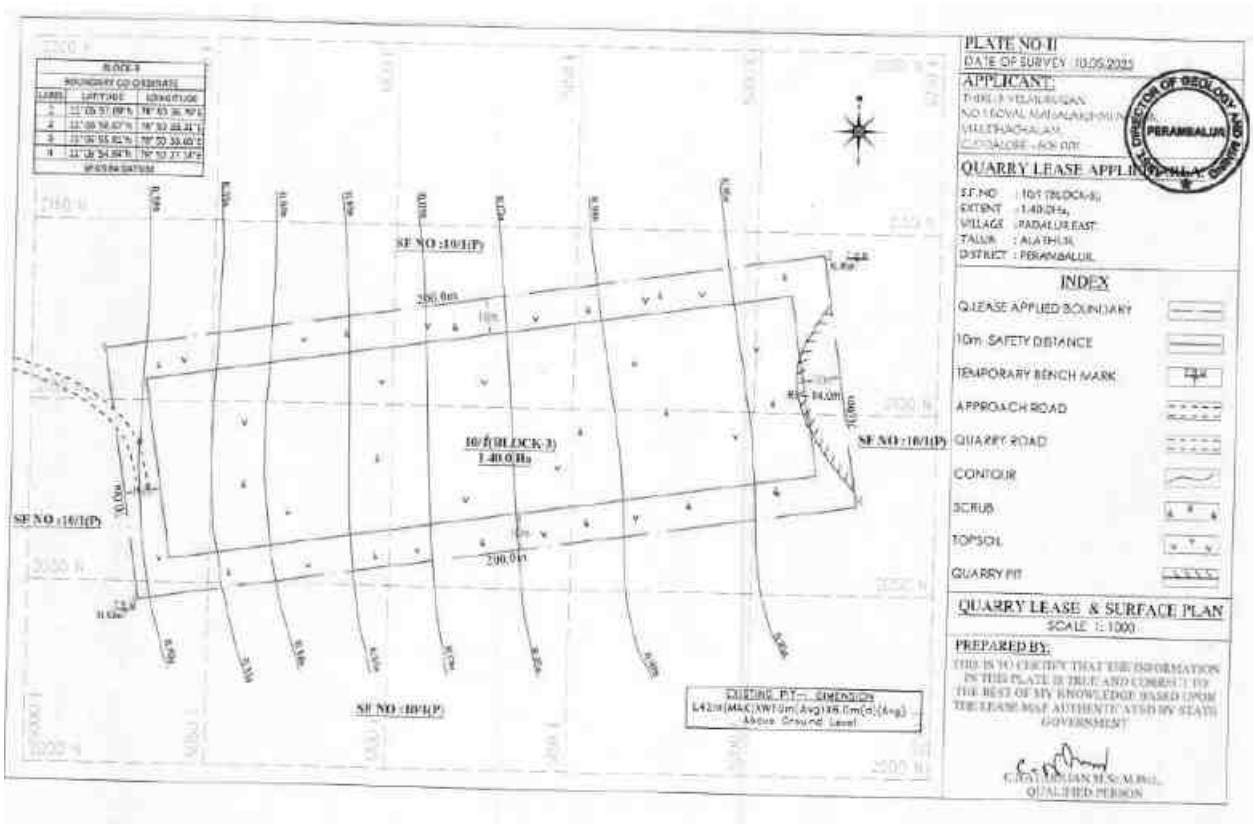


Figure 2.5 Lease Plan

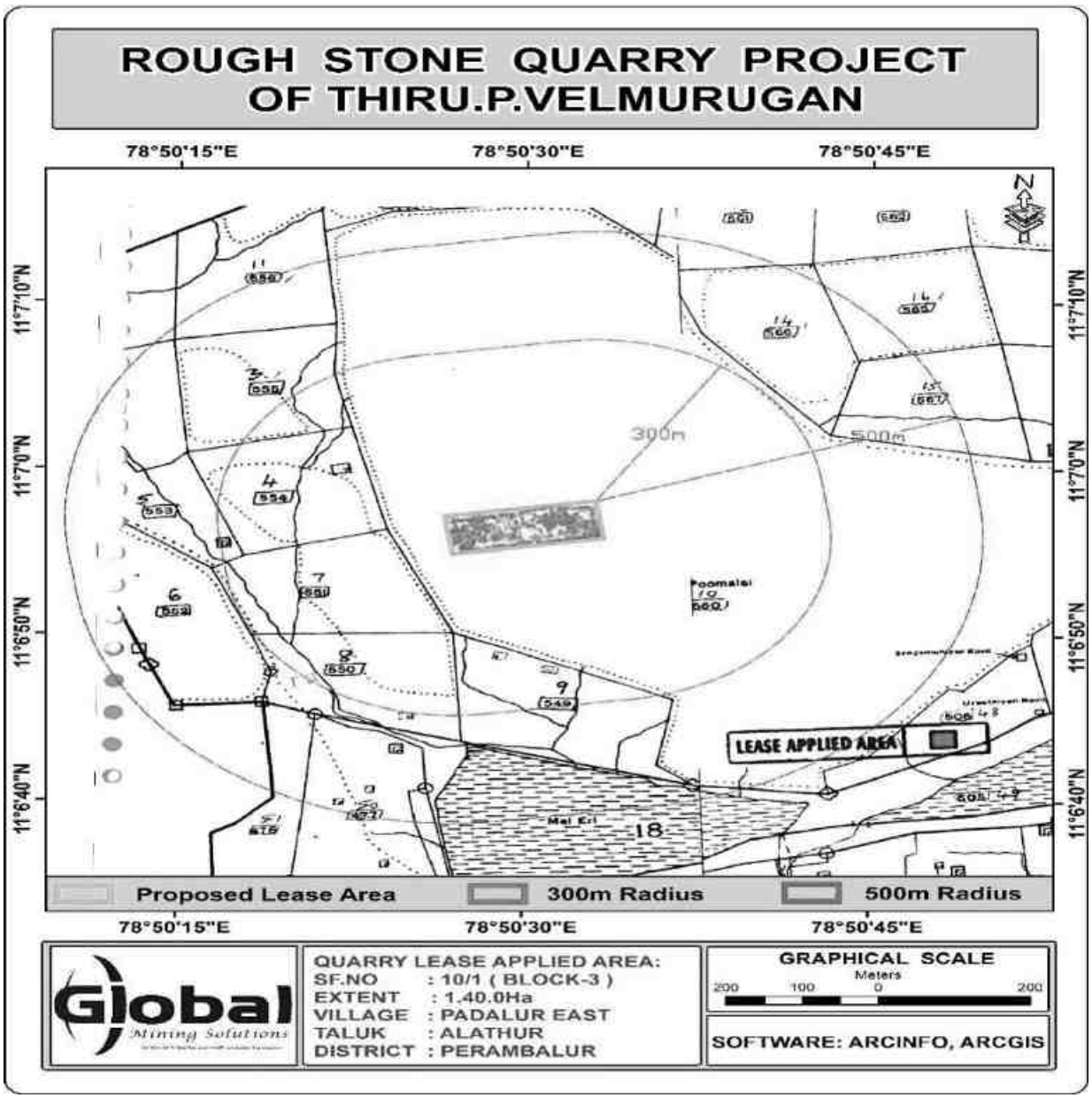


Figure 2.6 Village Map

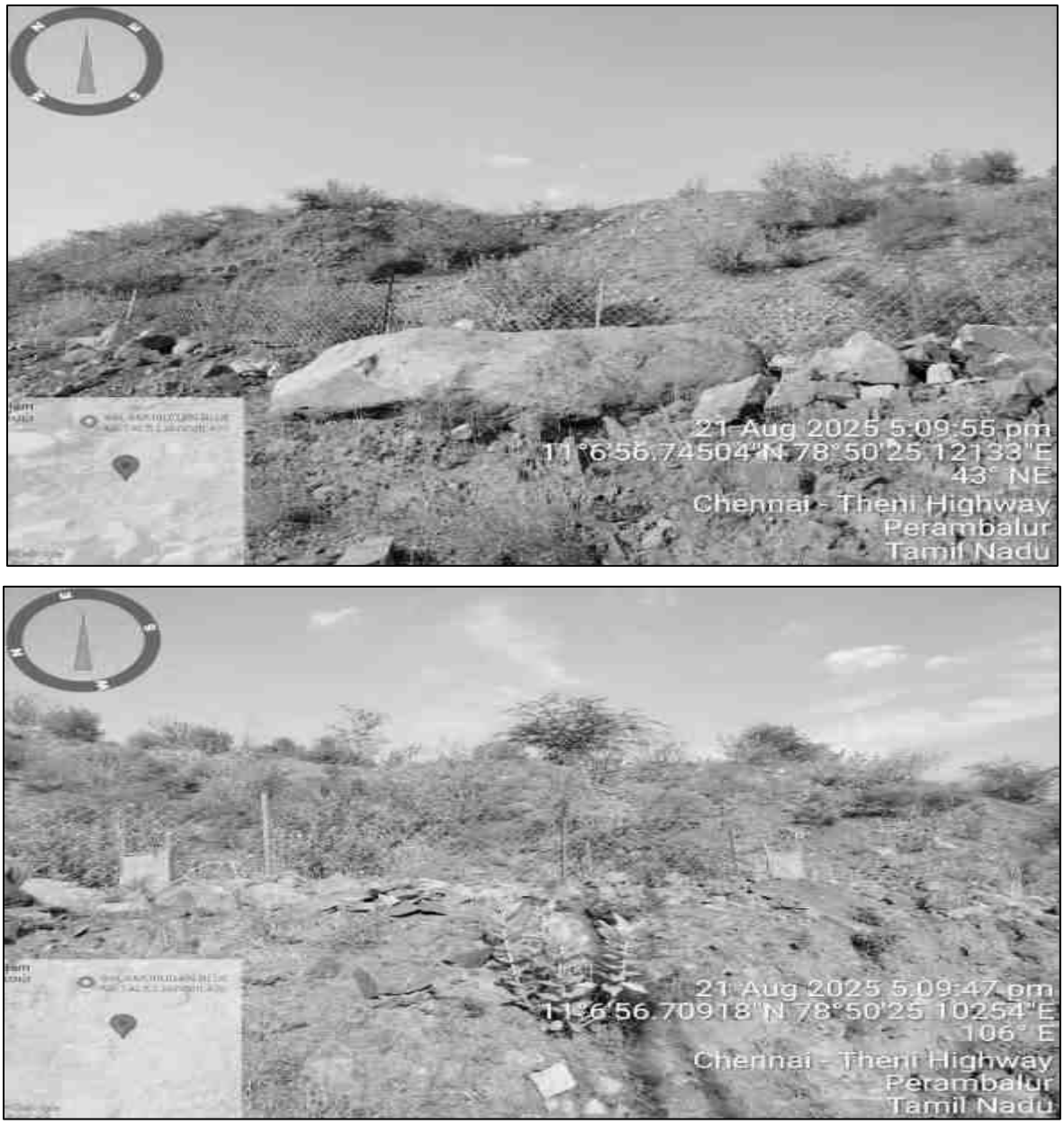


Figure 2.7 Site Photographs

2.4 LAND USE PATTERN OF THE PROJECT AREA

The entire project site Government Poramboke Land and the proponent has obtained tender from the Government. The land use pattern of the mine lease area as of today and conceptual stage given in Table No. 2.6.

Table 2.6 Land use pattern of the Project area

Description	Present Area in Ha.	Conceptual stage (Ha)
Quarrying Pit	0.04.2	0.95.0
Infrastructure	Nil	0.01.00
Roads	Nil	0.01.00
Safety Zone / Green Belt	Nil	0.43.0
Unutilized	1.35.8	Nil
Total	**1.40.0**	**1.40.0**

2.5 SIZE AND MAGNITUDE OF THE OPERATION

The proposed activity is the extraction of Rough Stone by open cast mechanized mining method over an extent of 1.40.00 Ha and to produce 10,19,837.50 Ts/ 3,70,850 m^3 of Rough Stone for the period of 5 years with ultimate depth up to 81 m 81m (61m Above Ground Level and 20m Below Ground Level) geological and mineable reserves in the lease area have been provided below in the subsequent sub section.

2.6 TOPOGRAPHY AND DRAINAGE

The area applied for quarry lease is exhibits hilly terrain covered by Topsoil formation. The massive Charnockite formation is noticed below 1m (Avg) Topsoil and sloping towards southwest side of the area, the altitude of the area is above 185m (maximum) from MSL. No major river is found nearby the lease applied area.

2.7 GEOLOGY

2.7.1 REGIONAL GEOLOGY

The area is underlain by the wide range of metamorphic rocks of peninsular gneissic complex. These rocks are extensively weathered and overlain by the recent valley

fills and alluvium at places. The geological formations found in the district are Archaean rocks like Gneisses, Granites, Charnockites basic granulites and calc-gneisses. The younger formations are Quartz veins and pegmatite.

The rock type noticed in the area for lease is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian minerals. The Charnockite is part of peninsular Gneisses, a high-grade metamorphic rock. The strike of the Charnockite formation is $N45^0E - S45^0W$ with dipping towards $SE80^0$.

The general geological succession of the area is given as under.

AGE		**ROCK TYPE**
Recent	-	Topsoil
	Unconformity	
Archaean	-	Dolerite dyke
		Charnockite.
		Peninsular
		Gneissic complex
		and Calc Gneiss

2.7.2 LOCAL GEOLOGY

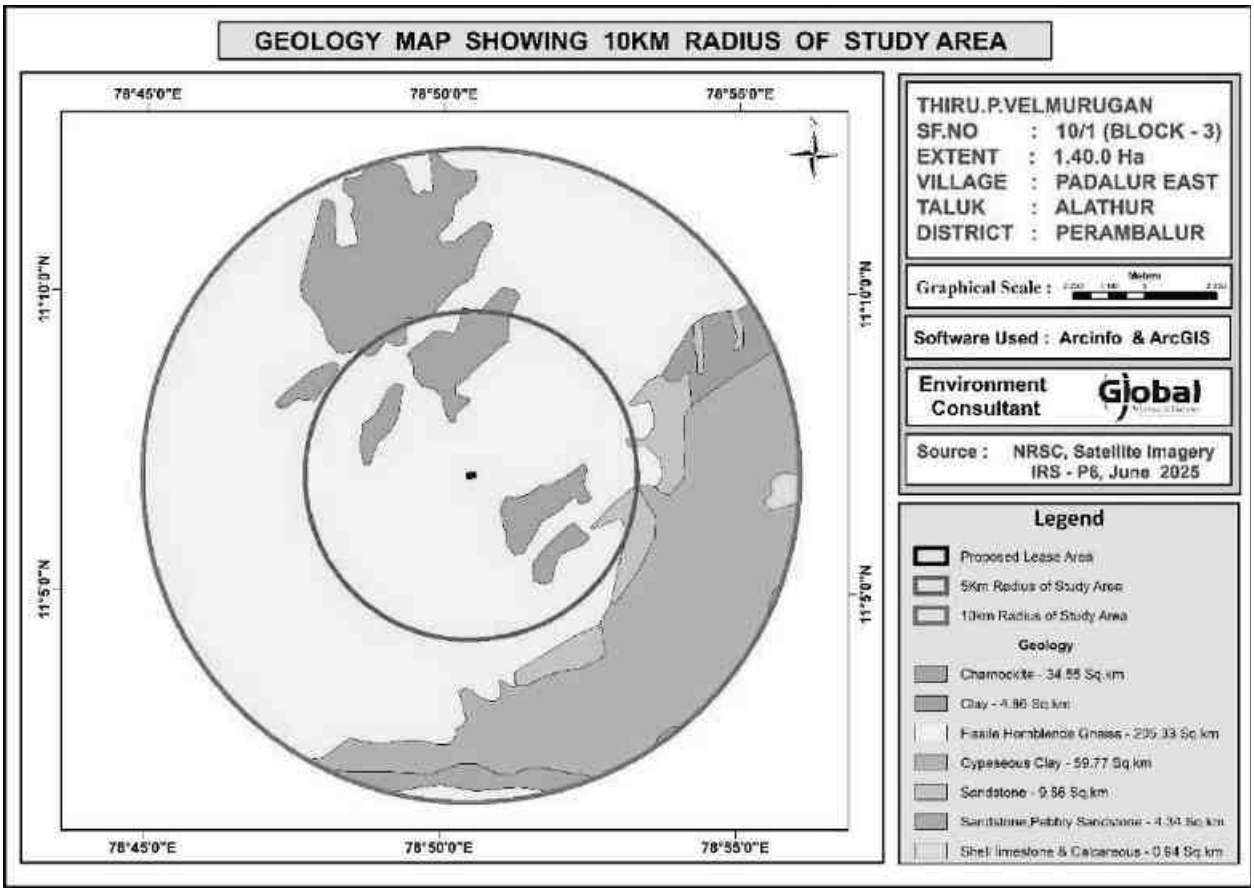


Figure 2.8 Geology Map – 10km Radius from the Project Site

Geologically in Perambalur district, western part is covered by hard rocks, south east by cretaceous formation, thin fringe of Gondwana in south and north Alluvium. The western part of the district is covered by Granitic gneiss, Hornblends gneiss, harnockite with intrusions of Dolerite – dykes and pegmatites. These rocks are highly metamorphosed and have been subjected to very severed folding, crushing and faulting.

Nearly 75% of the area in this district is covered by sedimentary formations like the ancient upper thin fringe of Gondwana (underlined by hard rock), cretaceous, Tertiary and Recent alluvial deposits. The Upper Gondwana occurs as a thin fringe composing of clay sandstone underlain by the hard rock.

The cretaceous formation deposited under marine conditions. The sequence of cretaceous beds commences with Uttatur stage, Ariyalur stages and closed with Ninniyur stage. These beds consist of shales, clay, limetone, argillaceous limestone, coral limestones and shell limestones. The Tertiary Miocene and Pliocene age formation is underlain by sand stoned. The formation consists of sand stones, gravelly sand, clays, lignite seam and pebble beds, marine regressions are indicated by intercalation of lignite beds. The cretaceous formations stretch along the river coursed of Coleroon, Marudaiyar and Vellar. They are mainly composed of Alluvial deposits which are medium to coarse grained sediments and finer flood plain deposits. The Quaternary alluvium is underlain by the Archaen and also the Cretaceous formation in Alathur Taluk.

2.8 RESOURCES AND RESERVES

The Resources and Reserves of Rough Stone were calculated based on Cross-Section Method to cover the maximum lease area.

Table 2.7 Available Geological Resources

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Geological Resources of Rough stone in Ts
XY-AB	Above Ground Level	I	95	70	1	6650	-	2	13300	-
		II	28	70	5	-	9800	2.75	-	26950.00
		III	47	70	5	-	16450	2.75	-	45237.50
		IV	65	70	5	-	22750	2.75	-	62562.50
		V	78	70	5	-	27300	2.75	-	75075.00
		VI	85	70	5	-	29750	2.75	-	81812.50
		VII	85	70	5	-	29750	2.75	-	81812.50
		VIII	85	70	5	-	29750	2.75	-	81812.50
		IX	85	70	5	-	29750	2.75	-	81812.50
		X	85	70	5	-	29750	2.75	-	81812.50
	Below Ground Level	XI	85	70	5	-	29750	2.75	-	81812.50
		XII	85	70	5	-	29750	2.75	-	81812.50
		XIII	85	70	5	-	29750	2.75	-	81812.50
		XIV	85	70	5	-	29750	2.75	-	81812.50
Total						**6650**	**344050**	**-**	**13300**	**946137.50**
XY-CD	Above Ground Level	I	116	70	1	8120	-	2	16240	-
		II	88	70	5	-	30800	2.75	-	84700.00
		III	106	70	5	-	37100	2.75	-	102025.00
		IV	114	70	5	-	39900	2.75	-	109725.00
		V	115	70	5	-	40250	2.75	-	110687.50
		VI	115	70	5	-	40250	2.75	-	110687.50

		VII	115	70	5	-	40250	2.75	-	110687.50
		VIII	115	70	5	-	40250	2.75	-	110687.50
		IX	115	70	5	-	40250	2.75	-	110687.50
		X	115	70	5	-	40250	2.75	-	110687.50
		XI	115	70	5	-	40250	2.75	-	110687.50
		XII	115	70	5	-	40250	2.75	-	110687.50
		XIII	115	70	5	-	40250	2.75	-	110687.50
	Below Ground Level	XIV	115	70	5	-	40250	2.75	-	110687.50
		XV	115	70	5	-	40250	2.75	-	110687.50
		XVI	115	70	5	-	40250	2.75	-	110687.50
		XVII	115	70	5	-	40250	2.75	-	110687.50
Total						**8120**	**631050**	**-**	**16240**	**1735387.50**
Grand Total						**14770**	**975100**	**-**	**29540**	**2681525.00**

Topsoil Formation : 29,450Ts

The Geological Resources of Rough stone : 26,81,525Ts

2.8.1 MINEABLE RESERVES

The available mineable reserve calculated by deducting 10m safety distance and bench loss.

Table 2.8 – Available Mineable Reserves

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil in m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Mineable Reserves of Rough stone in Ts
XY-AB	Above Ground Level	I	84	50	1	4200	-	2	8400	-
		II	28	50	5	-	7000	2.75	-	19250.00
		III	47	50	5	-	11750	2.75	-	32312.50
		IV	65	50	5	-	16250	2.75	-	44687.50
		V	75	50	5	-	18750	2.75	-	51562.50
		VI	70	50	5	-	17500	2.75	-	48125.00
		VII	65	50	5	-	16250	2.75	-	44687.50
		VIII	60	50	5	-	15000	2.75	-	41250.00
		IX	55	50	5	-	13750	2.75	-	37812.50
		X	50	50	5	-	12500	2.75	-	34375.00
	Below Ground Level	XI	45	50	5	-	11250	2.75	-	30937.50
		XII	40	40	5	-	8000	2.75	-	22000.00
		XIII	30	30	5	-	4500	2.75	-	12375.00
		XIV	20	20	5	-	2000	2.75	-	5500.00
Total						**4200**	**154500**	**-**	**8400**	**424875.00**
XY-CD	Above Ground Level	I	116	50	1	5800		2	11600	
		II	85	50	5	-	21250	2.75	-	58437.50
		III	89	50	5	-	22250	2.75	-	61187.50
		IV	92	50	5	-	23000	2.75	-	63250.00
		V	88	50	5	-	22000	2.75	-	60500.00
		VI	83	50	5	-	20750	2.75	-	57062.50
		VII	78	50	5	-	19500	2.75	-	53625.00
		VIII	73	50	5	-	18250	2.75	-	50187.50
		IX	68	50	5	-	17000	2.75	-	46750.00
		X	63	50	5	-	15750	2.75	-	43312.50

		XI	58	50	5	-	14500	2.75	-	39875.00
		XII	53	40	5	-	10600	2.75	-	29150.00
		XIII	48	30	5	-	7200	2.75	-	19800.00
	Below Ground Level	XIV	43	20	5	-	4300	2.75	-	11825.00
Total						**5800**	**216350**	**-**	**11600**	**594962.50**
Grand total						**10000**	**370850**	**-**	**20000**	**1019837.50**

The available mineable reserve is computed as 10,19,837.50Ts of rough stone and 20,000Ts of Topsoil upto a depth of 81m (61m above ground level and 20m below ground level) only.

2.9 PROCESS DESCRIPTION AND TECHNOLOGY

2.9.1 PROCESS DESCRIPTON

The quarry operation involves shallow jack hammer drilling, slurry blasting, excavation, Loading and transportation of rough stone to the needy buyers. The production of rough stone in this quarry involves the following method which is typical for Rough Stone quarrying in contrast to other major mineral mining.

- Splitting of rock mass of considerable volume from the parent rock mass by jackhammer drilling and blasting, hydraulic excavators are used for loading the Rough Stone from pithead to the needy buyers.
- Occasionally hydraulic excavators are attached with rock breakers for fragmentation to avoid secondary blasting.
- The primary boulders thus splitted are removed from the pits by excavators and further made to smaller sizes by rock breakers attached in excavators.

The process diagram is provided in Figure 2.9. The production plan and cross section and conceptual plan and conceptual cross section is given in Figure No. 2.10 and Figure No. 2.11 respectively.

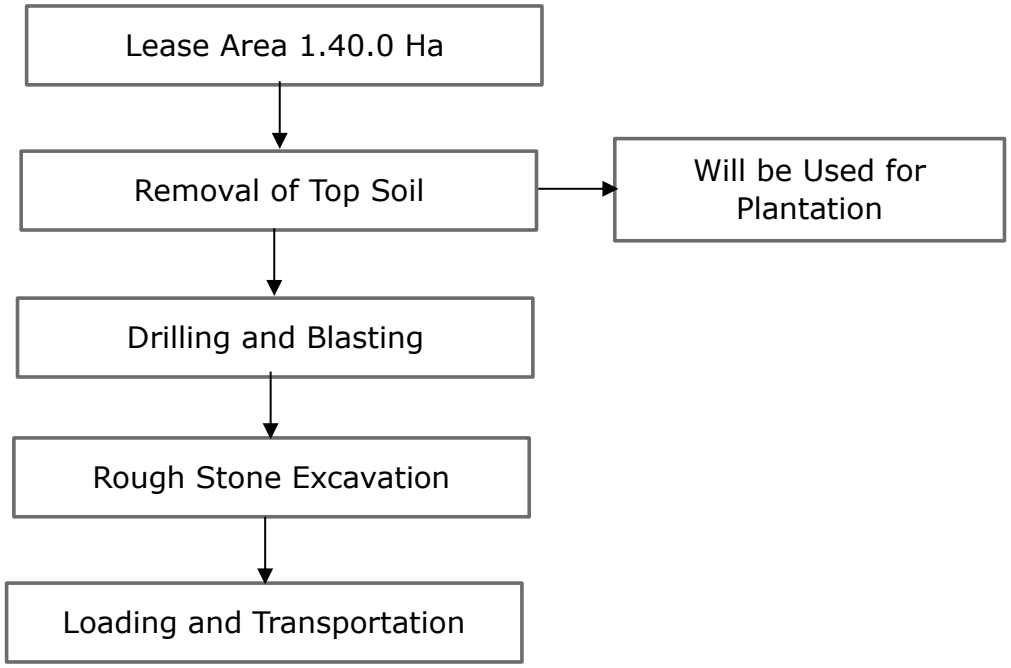


Figure 2.9 Process Flow Diagram

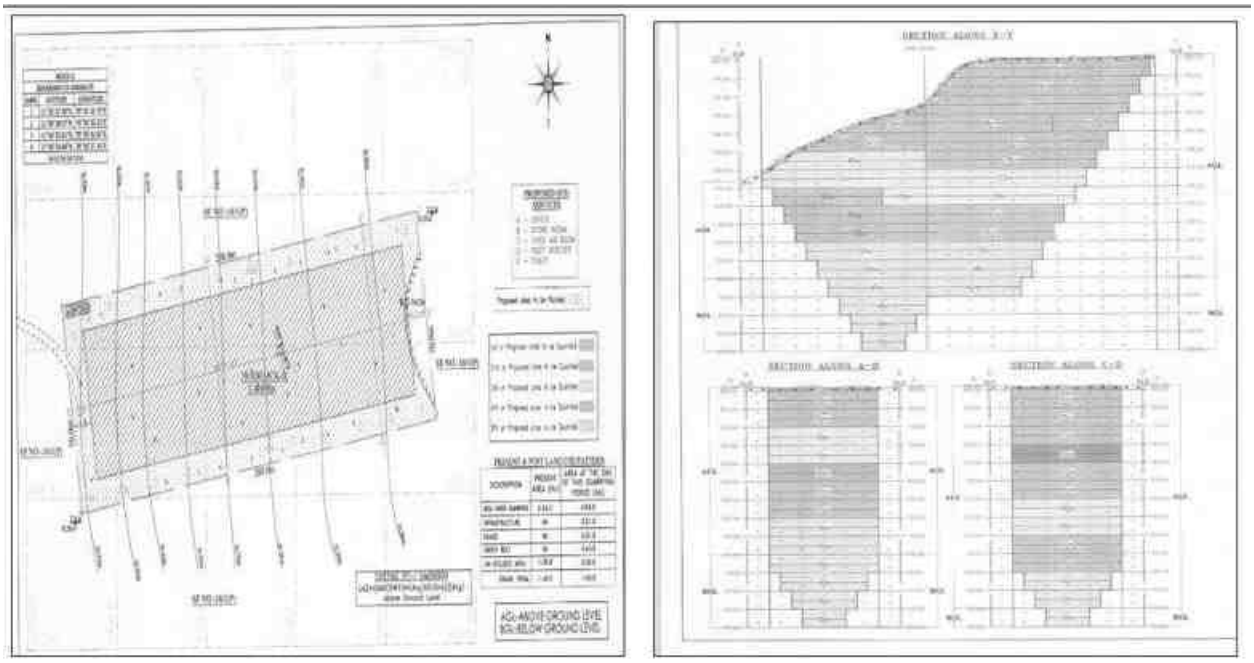


Figure 2.10 Year wise Development & Production Plan & Sections

Table 2.9 – Machinery Details

S.No.	Name of the Equipment	Capacity	Requirement
1	Excavator with Rock breaker attachment	0.90 m^3	2 Nos.
2	Compressor	-	2 Nos.
3	Jack hammer	32 mm Dia	5 Nos.
4	Tipper	10/20 Ts	5 Nos.

2.9.2 DRILLING AND BLASTING PARAMETERS

Drilling and Blasting will be carried out as per parameters given below,

Table 2.10 – Details of Blasting

Diameter of the hole	32-36 mm
Spacing	0.6m
Depth	1 to 1.5 m
Burden of hole	0.6m
Pattern of hole	Zig zag

Inclination of hole	70^0 from horizontal
Number of holes	226
Powder factor	6Ts/Kg of Explosives
Total explosive required	113 Kg slurry Explosives
Charge / hole	0.5Kg
Blasting time	12-2 Pm

2.9.3 TYPE OF EXPLOSIVE

Slurry explosive is proposed for shattering and heaving effect for removal of rough stone. No deep hole drilling or primary blasting is proposed. The Project Proponent have agreement with AR & Co to carry out the blasting operation for the proposed quarry. The Blasting Agreement is enclosed as Annexure – 6.

2.9.4 STORAGE OF EXPLOSIVES

No proposal for storage of explosives within the project area, the applicant will engage authorized explosive agency to carry out the blasting and it will be supervised by competent and statutory foreman / mines manager as per DGMS guidelines.

2.9.5 PRODUCTION SCHEDULE

The year wise production schedule upto lease period of 5 years is given below, the year wise production plan is given in Figure 2.10.

Table 2.11 Year wise Production Plan

(i) First Five Years

Year	Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil in m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Mineable Reserves of Rough stone in Ts
I	XY-AB	Above Ground Level	I	84	50	1	4200	-	2	8400	-
	XY-CD		I	116	50	1	5800	-	2	11600	-
			II	85	50	5	-	21250	2.75	-	58437.50
			III	89	50	5	-	22250	2.75	-	61187.50
			IV	92	50	5	-	23000	2.75	-	63250.00
			V	30	50	5	-	7500	2.75	-	20625.00
TOTAL							**10000**	**74000**	**-**	**20000**	**203500.00**
II	XY-CD	Above Ground Level	V	58	50	5	-	14500	2.75	-	39875.00
			VI	83	50	5	-	20750	2.75	-	57062.50
			VII	78	50	5	-	19500	2.75	-	53625.00
	XY-AB		II	28	50	5	-	7000	2.75	-	19250.00
			III	47	50	5	-	11750	2.75	-	32312.50
TOTAL							**-**	**73500**	**-**	**-**	**202125.00**
III	XY-AB	Above Ground Level	IV	65	50	5	-	16250	2.75	-	44687.50
			V	75	50	5	-	18750	2.75	-	51562.50
			VI	20	50	5	-	5000	2.75	-	13750.00
	XY-CD	Above Ground Level	VIII	73	50	5	-	18250	2.75	-	50187.50
			IX	68	50	5	-	17000	2.75	-	46750.00

TOTAL							**-**	**75250**	-	**-**	**206937.50**
IV	XY-AB	Above Ground Level	VI	50	50	5	-	12500	2.75	-	34375.00
			VII	65	50	5	-	16250	2.75	-	44687.50
			VIII	60	50	5	-	15000	2.75	-	41250.00
	XY-CD		X	63	50	5	-	15750	2.75	-	43312.50
			XI	58	50	5	-	14500	2.75	-	39875.00
TOTAL							**-**	**74000**	-	**-**	**203500.00**
V	XY-AB	Above Ground Level	IX	55	50	5	-	13750	2.75	-	37812.50
			X	50	50	5	-	12500	2.75	-	34375.00
		Below Ground Level	XI	45	50	5	-	11250	2.75	-	30937.50
			XII	40	40	5	-	8000	2.75	-	22000.00
			XIII	30	30	5	-	4500	2.75	-	12375.00
			XIV	20	20	5	-	2000	2.75	-	5500.00
	XY-CD	Above Ground Level	XII	53	40	5	-	10600	2.75	-	29150.00
			XIII	48	30	5	-	7200	2.75	-	19800.00
		Below Ground Level	XIV	43	20	5	-	4300	2.75	-	11825.00
TOTAL							**-**	**74100**	**-**	**-**	**203775.00**
GRAND TOTAL							**10000**	**370850**	-	**20000**	**1019837.50**

The applicant has proposed to carry out 10,19,837.50Ts of Rough stone and 20,000Ts of Topsoil formation upto a depth of 81m (61m above ground level and 20m below ground level) for the period of five years.

2.9.6 DISPOSAL OF WASTE

There is no waste anticipated in this rough stone Quarry. The entire quarried minerals will be utilized. The overburden in the form of Top Soil, will be preserved in the safety zone and utilized for plantation purpose. Rough Stone, after the excavation Rough Stone will be directly loaded into tipper to the needy buyers for road project and construction works for filling and leveling of low lying areas.

2.10 CONCEPTUAL MINING PLAN / FINAL MINE CLOSURE PLAN

Conceptual mining plan is prepared with an object of five years of systematic development of bench layouts, selection of ultimate pit limit, depth of quarrying, ultimate pit slope, selection of sites for construction of infrastructure etc.

The ultimate pit size is designed based on certain practical parameters such as economical depth of mining, safety zones, permissible area, etc. Conceptual cross section and mine closure plan is given in Figure 2.11.

Existing Pit dimension as per approved mining plan is given below.

Pit No	length (Max) in (m)	Width (Avg) in (m)	Depth (Max) in (m)
I	42	10	6m (above ground level)

Table 2.12 - Ultimate Pit Dimension at the end of Lease period

Pit	Length in m (Max)	Width in m (Max.)	Depth in m (Max.), AGL
I	190	50	81m (61m above ground level and 20m below ground level)

Table 2.13 - Land use pattern of the Project site

Description	Present Area (Ha)	Area in use during the quarrying period (Ha)
Quarrying pit	0.04.2	0.95.0
Infrastructure	Nil	0.01.0
Roads	Nil	0.01.0
Greenbelt	Nil	0.43.0

Unutilized	1.35.8	Nil
Total	**1.40.0**	**1.40.0**

- At the end of life of mine, the excavated mine pit / void of 0.95.0 Ha will act as artificial reservoir for collecting rain water and helps to meet out the demand or crises during drought season.
- After mine closure the greenbelt (0.43.0 Ha.) will be developed along the safety barrier and top benches and 0.02 Ha are approach road and Infrastructure.

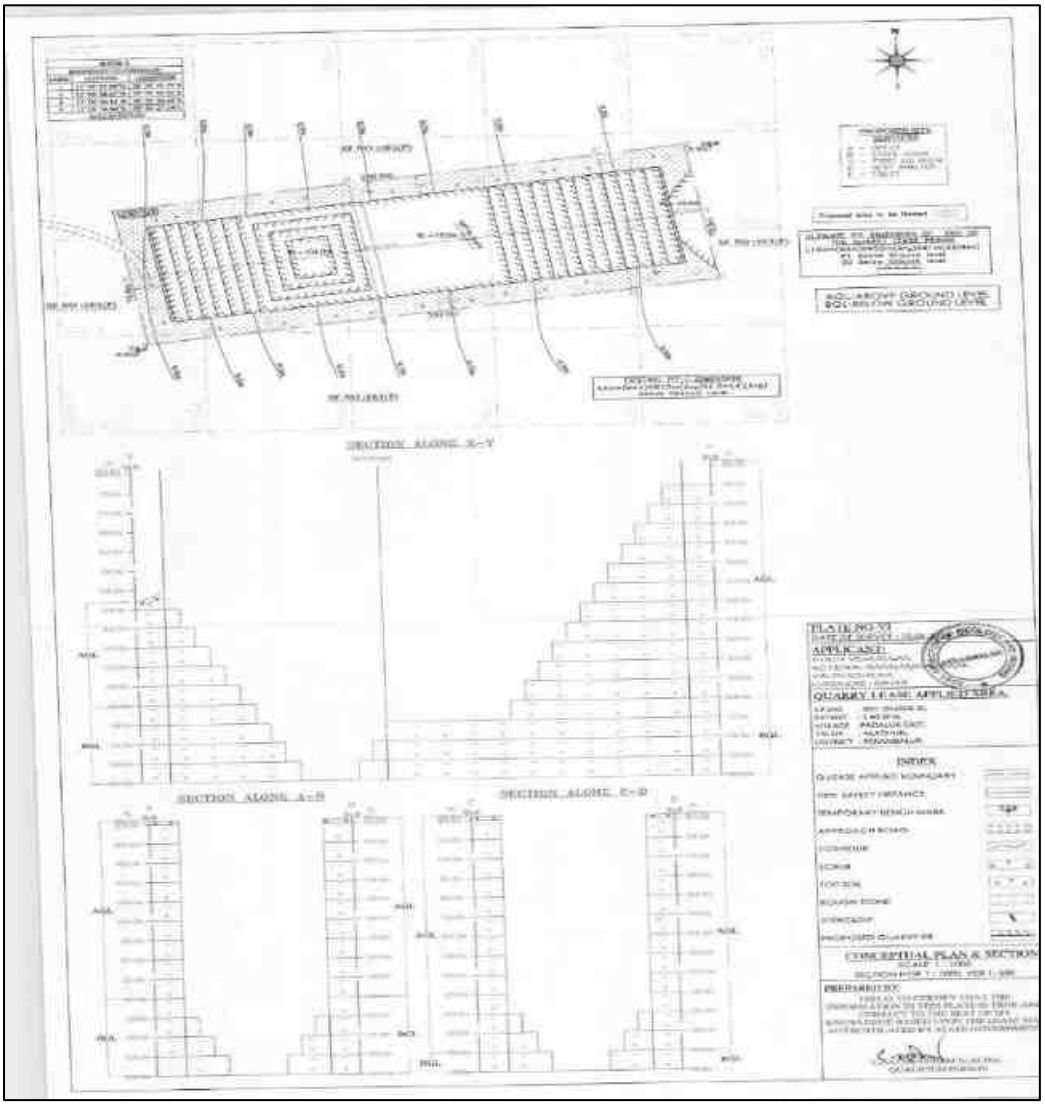


Figure 2.11 Conceptual Plan and Cross Section

2.11 PROJECT REQUIREMENT

2.11.1 WATER REQUIREMENT AND SOURCE

The total water requirement estimated for the quarry is 2.0 KLD. The required water will be procured from outside agencies initially and later rainwater harvested in the mine pit shall be used other than drinking purpose.

Table 2.14 Details of Water requirement

Activity	Water Requirement in KLD
Drinking & Domestic	0.5
Dust Suppression	1.0
Greenbelt Development	0.5
Total	**2.0**

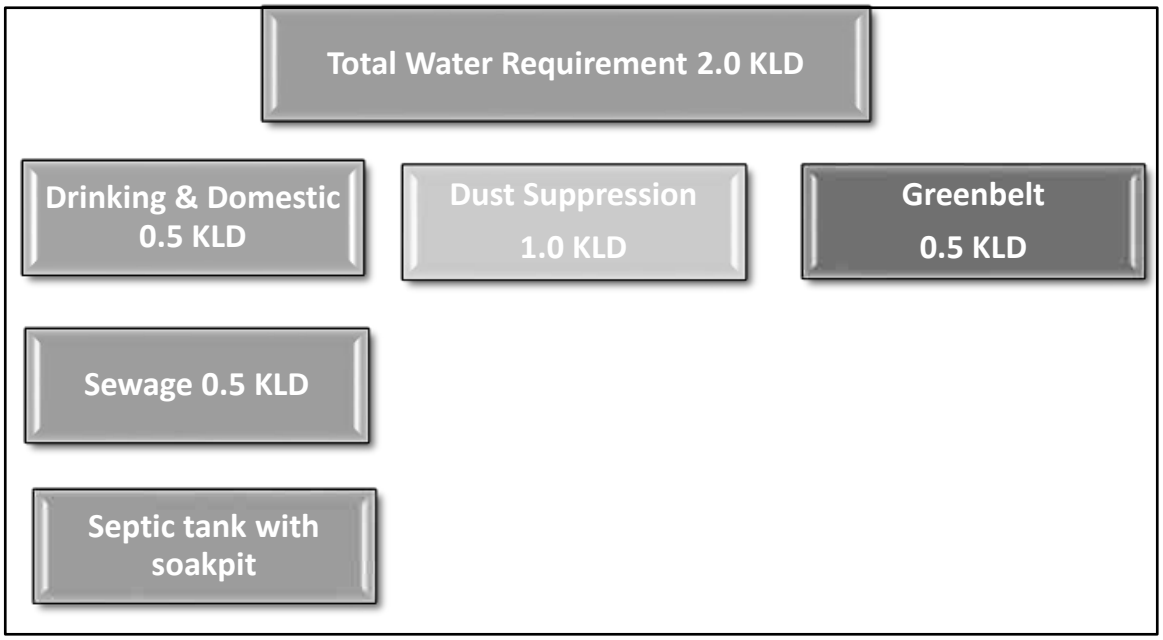


Figure 2.12 Water Balance Chart

2.11.2 POWER REQUIREMENT

All the equipment will be diesel operated. No electricity is needed for mining operation. The minimum power requirement for office, etc will be met from state grid.

2.11.3 FUEL REQUIREMENT

High speed Diesel (HSD) will be used for mining machineries.

Table 2.15 Details of Fuel (HSD) Requirement

For Rough Stone

Per hour excavator will consume	16 liters /hr
Per hour excavator will excavate	20 m3 of Rough Stone
For 2,17,495 m3	3,70,850 /20 = 18,542.5
So, Diesel consumption	= 18,542.5 x 16 litres
	= 2,96,680 litres of HSD

The Total fuel consumption is around 2,96,680 (L) of HSD for the entire period of life (5 years).

2.11.4 EMPLOYMENT GENERATION

The project will provide employment opportunities totally to 14 persons directly and 18 indirectly.

Table 2.16 Details of Manpower requirement

1.	Skilled	Mines Manager	1 No.
		Foreman / Mate	2 No.
		Operator	10 No.
		Mechanic	1 No.
2.	Semi–skilled	Driver	5 No.
3.	Unskilled	Labours	13Nos
		Total =	32Nos

2.11.5 GREEN BELT REQUIREMENT

The safety zone, covering an area of 0.43.0 Hectares, will be maintained as a green belt and planted with 430 Nos. of local species.

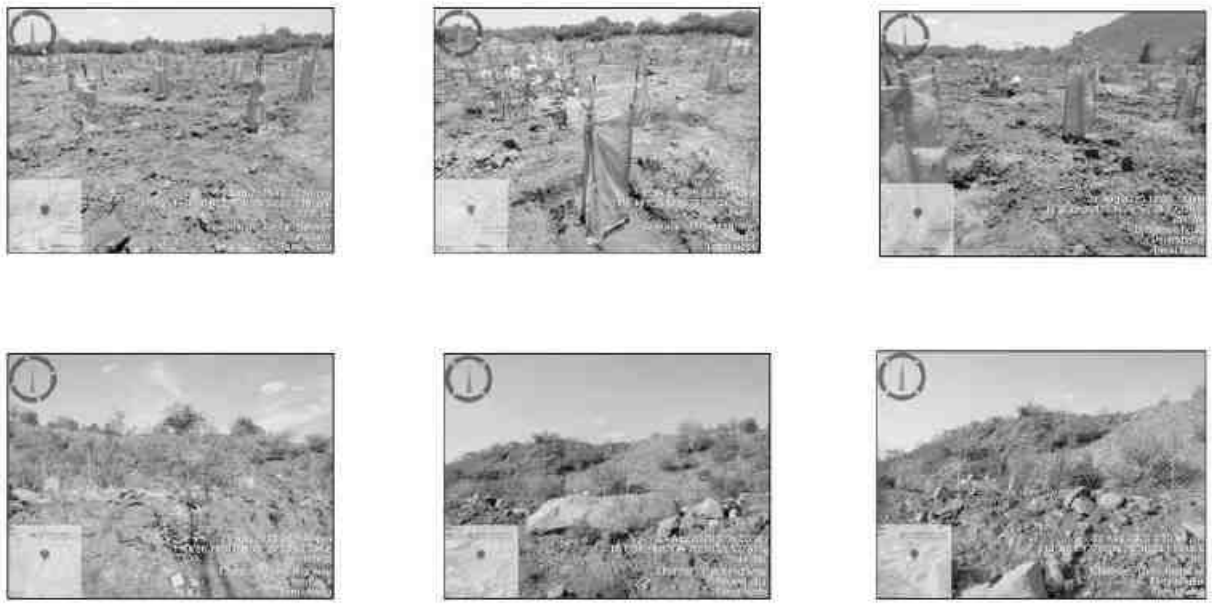


Figure 2.13 Fencing and Plantation Photos

2.11.6 VEHICULAR TRAFFIC DENSITY

The proposed quarry is located in Padalur village. The final product from the quarry will be transported through (NH-38) Viluppuram – Trichy – 0.92 km (NW). The details of transport route from the quarry shown below:



Figure 2.14 Traffic Map with Distance of nearest Crusher

Mineral Transportation

Table 2.11 Mineral Transportation			
Production Per day in tons			
Quarry	**Quarry Name**	**Total Mineral in tons per day**	**No. of Lorry Load per day**
P1 (Proposed)	Thiru.R.Vinoth	247	25
P2 (Proposed)	Thiru.R.Rajkumar	579	58
P3 (Proposed)	M/s.Mars Mines	385	39
P4 (Proposed)	Thiru.Hariharan.L	329	33
P5 (Proposed)	Thiru.P.Velmurugan	220	22
P6 (Proposed)	M/s.SR Mines and Minerals	656	66
P7 (Proposed)	Thiru.M.Thangaraj	233	23
P8 (Proposed)	M/s. Rajamalai Metals	515	52
P9 (Proposed)	P. Velmurugan	1818	182

Total	**4982**	**500**

The proposed projects will bring 500 trips per day.

Methodology

Vehicle Count

The vehicles passing through the road (in both ways) were counted separately for 24 hours at the one selected location from 0600 hrs to 0600 hrs next day continuously. Category wise vehicle counting has been done continuously and recorded in the traffic volume count on hourly basis under respective categories.

Categorization of Traffic

The engine driven vehicles were categorized into various heads viz. two wheelers, three wheelers, four wheelers and trucks/bus. The level of service is given below. **(Source: Recommended Design Service Volumes (PCUs per hour), IRC)**

OPERATING CONDITION OF ROAD IN TERMS OF V/C AS PER INDIAN ROADS CONGRESS (IRC) 106 - 1990

Level of Service	General Operating conditions	Range of V/C
A	Free flow (traffic flows at or above speed limit and motorists have complete mobility between lanes)	<0.30
B	Reasonable flow (slightly more congested, with some maneuverability)	0.3 – 0.47
C	Stable flow (more congested than B, loads close to capacity)	0.48 – 0.68
D	Approaching unstable flow (speeds are somewhat reduced, example: busy corridor during middle of a weekday, or a functional urban highway during rush hour)	0.69 – 0.88

E	Unstable flow (flow becomes irregular, speed varies widely and rarely reaches speed limit)	0.88 - 1.00
F	Forced or breakdown flow (a constant traffic jam)	>1.00

Table 2.17 Existing Traffic Flow

Station Code	HMV		LMV		2/3 Wheelers		Total PCU
	No	PCU	No	PCU	NO	PCU	
1	102	306	137	137	298	149	592

PCU conversion factor: HMV (Trucks and Bus) = 3, LMV (Car, Jeep and Auto) = 1 and 2/3 Wheelers = 0.5

Table 2.18 – Mineral Hourly Transportation Requirement

Capacity of trucks	No Trips per day Cumulatively	Volume in PCU	PCU Per hour considering 8 HOURS
10 tonnes	500	1500	188

Table 2.19 - Summary of Traffic Volume

Route	Existing Traffic Survey in PCU	Incremental Traffic Survey due to project	Total Traffic Survey Volume	Hourly capacity in PCU as per IRC -1960 guidelines
NH 38	592	187	779	3600

As per the IRC 1960 this existing village road can handle 3600 PCU in hour hence there will not be any conjunction due to this proposed transportation.

Table 2.20 - Modified Level of Service

Sampling Location	Existing Volume	Existing Volume/	Additional Volume	Modified Volume	Modified Volume/	Modified LOS

	(PCU/hr)	Capacity ratio	(PCU/hr)	(PCU/hr)	Capacity ratio	
NH 38	592	0.16	187	0.05	0.21	A*

(* A – Free Flow)

2.11.7 INFRASTRUCTURE REQUIREMENT

This is a proposed project. Site services like mine office, first aid room, toilets etc. will be provided as semi-permanent structures.

2.11.8 PROJECT COST

The total project cost of this rough stone Quarry is Rs. 618.87 lakhs.

PROJECT COST DETAILS		
Fixed Cost:		
Land Cost	**:**	**511 Lakhs**
First Aid Room and accessories	**:**	**1.00 Lakh**
Labour Shed	**:**	**1.00 Lakh**
Sanitary Facility	**:**	**1.00 Lakh**
Total – 514 Lakhs		
Operational Cost		
Machineries	**:**	**80.00 Lakhs**
Fencing cost	**:**	**1.5 Lakhs**
Total – 81.5 Lakhs		
EMP Cost		
Air Environment, Noise Environment, Mine Closure, Implementation of EC, Mining Plan & DGMS Condition	**:**	**Total – 20.37 Lakhs**
CER Cost		
Canteen construction	**:**	**Total – 3.00**

		Lakhs
Grand Total	**:**	**618.87Lakhs**

2.11.9 PROJECT IMPLEMENTATION SCHEDULE

The proponent proposes to implement the production immediately after obtaining all the statutory approvals. The commercial operation will commence after the grant of Environmental Clearance. CTO and CTE will be obtained from the Tamil Nadu State Pollution Control Board. The conditions imposed during the Environmental Clearance will be compiled before the start of mining operation.

***

CHAPTER 3

DESCRIPTION OF THE ENVIRONMENT

3.1. STUDY AREA, PERIOD COMPONENTS AND METHODALOGY

The project area is located in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State over an extent of 1.40.00 Ha., The project area is considered as Core zone and the area in the surrounding 10km radius is considered as Buffer Zone. The baseline environmental monitoring was conducted by Shrient Analytical & Research Labs Private Limited, Chennai it is an NABL and MOEFCC recognized laboratory for various components of environment, viz. Air, Noise, Water, Land was carried out during Summer Season i.e. March 2025 to May 2025 in the study area covering 10 km radial distance from the rough stone mine. Other environmental data on flora and fauna, land-use pattern, forest etc. were also generated through field surveys and secondary information collected from different State Govt. departments. Sampling methods and analysis. Socio-economic survey was conducted, through interaction with the people, sarpanch and medical officers by floating questionnaires and collection of information are supported by census data for demographic structures, amenities, and infrastructure availability within the study area. Baseline values for various environmental components are discussed in this Chapter.

3.2 ENVIRONMENTAL SETTING OF THE STUDY AREA

Table 3.1 Description of the lease area		
S.No.	**Areas**	**Distance from project site**
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil within 15km radius
2	Areas which are important or sensitive for ecological reasons	
A	Wetlands, water courses or other water bodies,	500 m Radius: The Tank is situated at 260m on the South side of the lease applied area. There are no other Water bodies (River, Pond, Lake, Odai, Channel, etc.) within a radius of 500m. 500 m – 10 km radius Tank – 620m (SE), Maruthadi Eri-1.35Km (SW), Therani Big Lake-4.16Km(SE), Nanthai River – 4.3 km (S)
B	Coastal zone, biospheres,	Nil within 10km radius
C	Mountains, forests	Naranamangalam R.F – 4.07 km (NW), Maniyankurichi R.F – 7.39Mkm (SW), Maramareddi palaiyam R.F. – 9.27 km (SW), Velur R.F – 7.38 km (NW) & Siruvachur R.F –7.28 km (NW)
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	Nil within 15km radius
4	Inland, coastal, marine or underground waters	Nil within 15km radius
5	State, National boundaries	Nil within 15km radius
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Nil within 15km radius
7	Defense installations	Nil within 15km radius
8	Densely populated or built-up area	There are no habitations within a radius of 300m. Padalur west – 1.2 km (SE)

9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	There are no habitations within a radius of 300m. Padalur west – 1.2 km (SE)
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Nil
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	Nil
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earth quakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects	No. The area is not prone to earthquakes, floods, etc.

3.3 STUDY PERIOD

The relevant information and data (both primary and secondary) were collected in core as well as buffer zone (10 km distance from the mine boundary) during Summer Season (March., to May., 2025) in accordance with the guidelines for preparation of EIA studies in order to assess the impact of the mine site within the 10 Km study area on existing physical, biological and social environment.

3.4 ESTABLISHMENT OF BASELINE FOR VALUED ENVIRONMENTAL COMPONENTS

Information on the following components/parameters were collected to understand the existing scenario of the core and buffer area:

- Meteorological environment
- Air environment
- Water environment
- Noise environment
- Soil environment

- Biological environment
- Land use & Land cover
- Socio economic environment
- Hydrogeology

3.4.1 BASELINE DATA COLLECTION

Baseline environment data on various components of the environment in the study area were collected during Summer Season (March., to May., 2025) to assess the present scenario of the area. Details are given in the table given below.

Baseline data collection During Post Monsoon Season (March., to May., 2025)

Sr.No	Environmental Component	Primary data		
		Parameters	Frequency	Monitoring/Sampling locations
1	Land	Agriculture, Habitation, Industry, Stony waste/ Quarries, Forest area, Plantation/ Vegetation, Open scrub, Water bodies etc.	Once in a Season	10 km radius study area
2	Meteorology	Temperature, Relative Humidity, Wind Speed, Wind Direction.	Hourly	1
3	Air	PM10, PM2.5, SO2, NO2, CO & PAH	twice a week (24 hourly)	7
4	Noise	Equivalent noise levels in Leq in dB (A)	Once in a season (day & night time)	7
5	Water	Parameters as per IS 10500 - 2012	Once in a season	
A	Surface Water	Parameters as per IS 10500 - 2012	Once in a season	2
B	Ground Water	Parameters As per IS 2720/USDA	Once in a season	7
6	Soil	Parameters As per IS 2720/USDA	Once in a season	7
7	Biological Environment	Flora and Fauna	Once in a season	Study Area
8	Socio-Economic Environment	Socio-Economic Environment	Once in a season	Study Area

3.4.2 INSTRUMENTS USED FOR ENVIRONMENTAL BASELINE DATA COLLECTION

The following instruments were used at the site for environmental baseline data collection work.

- Respirable Dust Sampler with attachment for gaseous Pollutants, Envirotech APM 460.
- Fine Particulate Matter (FPS) Sampler APM 550
- Sound Level Meter Model Envirotech SLM - 100
- Digital D.O. Meter Model - 831 E (CPCB Kit)
- Weather Monitoring Station Model Enviro WM 271
- Water Level Indicator and
- Global Positioning System (GPS) Apart from collecting samples of air, water, noise and soil from representative sampling points given in proceeding sections, the data on land use, vegetation and agricultural crops were also collected by the field team through interaction with a large number of local inhabitants of the study area and different Government departments/agencies. This provided an excellent opportunity to the members of the field team for obtaining clear scenario of the existing environment of the study area.

3.4.3. BASE MAP OF ALL ENVIRONMENTAL COMPONENTS

(ENUMERATION OF THE STRUCTURES LOCATED WITHIN 300 m RADIUS FROM THE PROPOSED QUARRY SITE)

A site survey has been conducted to identify and list structures located within a 300 m radius from the proposed Quarry and are detailed below. There are no permanent structures within a 300 m radius from the project site. The PP has obtained a letter from Village Administrative Office (VAO), Padalur stating that there are no structures situated within 500 m radius.

S. No	Name of the Structure	Distance and Direction	Ownership	Occupant	Type	Age

S1	OLD CRUSHER PLANT	230 m (SW)	Not belongs to PP	NIL	G.I SHED	> 5 YEARS
S2	REWORK SHED	249m (NW)				
S3	LABOUR SHED	270m (SW)		3	CONCRETE	
S4	CRUSHER PLANT	280m (S)		NIL		
S5	CRUSHER PLANT	290m (NW)				< 5 YEARS

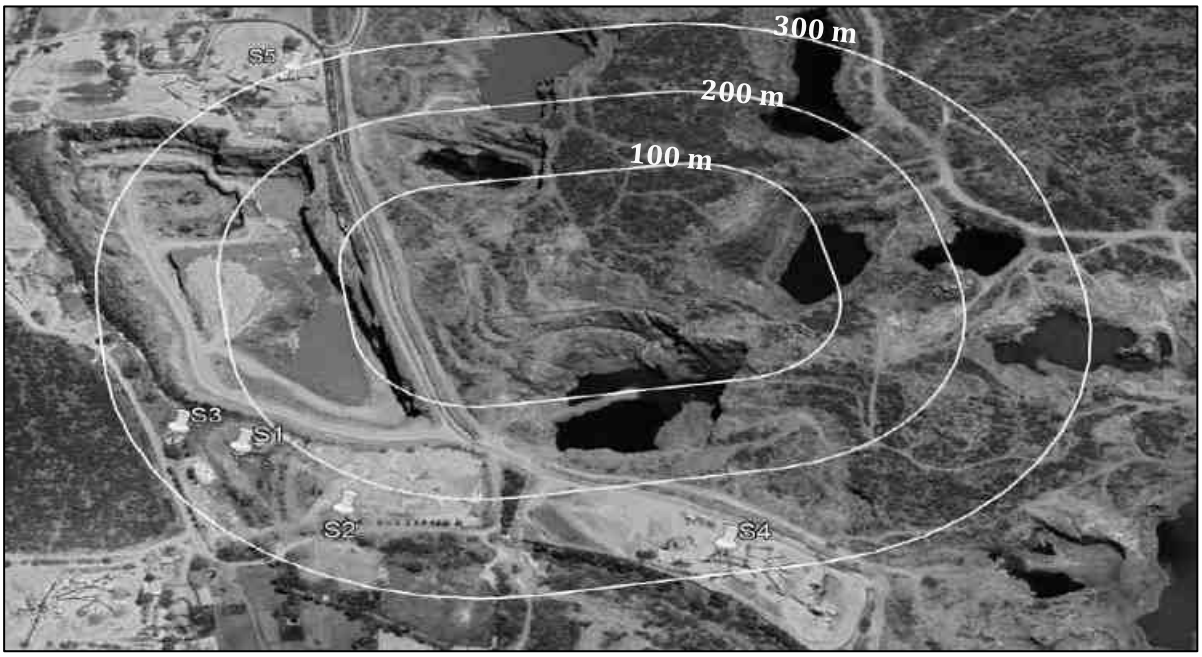


FIGURE 3.1 STRUCTURES LOCATED WITHIN 300m RADIUS FROM THE PROPOSED QUARRY SITE



S1 –OLD CRUSHER PLANT-230m (SW)



S2 –REWORK SHED-249m (NW)



S3 –LABOUR SHED-270m (SW)



S4 –CRUSHER PLANT-280m (SW)



S5 –CRUSHER PLANT-290m (NW)

As per filed study, there are 5 structures observed within 300m radius of the proposed site. Structures within 300m radius are 3 crusher plants, a Labour shed, and a Rework shed. Hence, there are no habitations/houses within 300m radius of the project site.

FIGURE - 3.2 SATELLITE MAP OF THE PROJECT AREA (10 KM RADIUS)

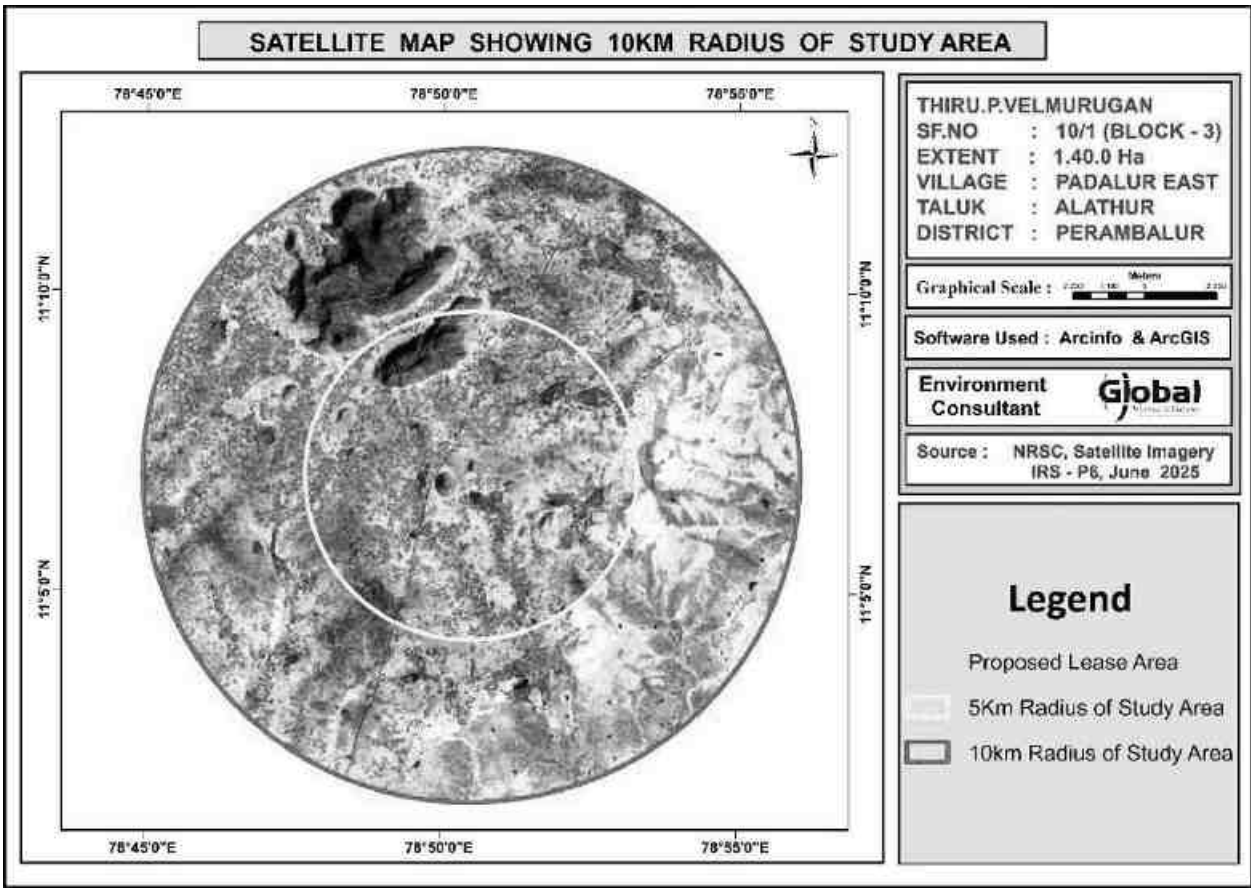
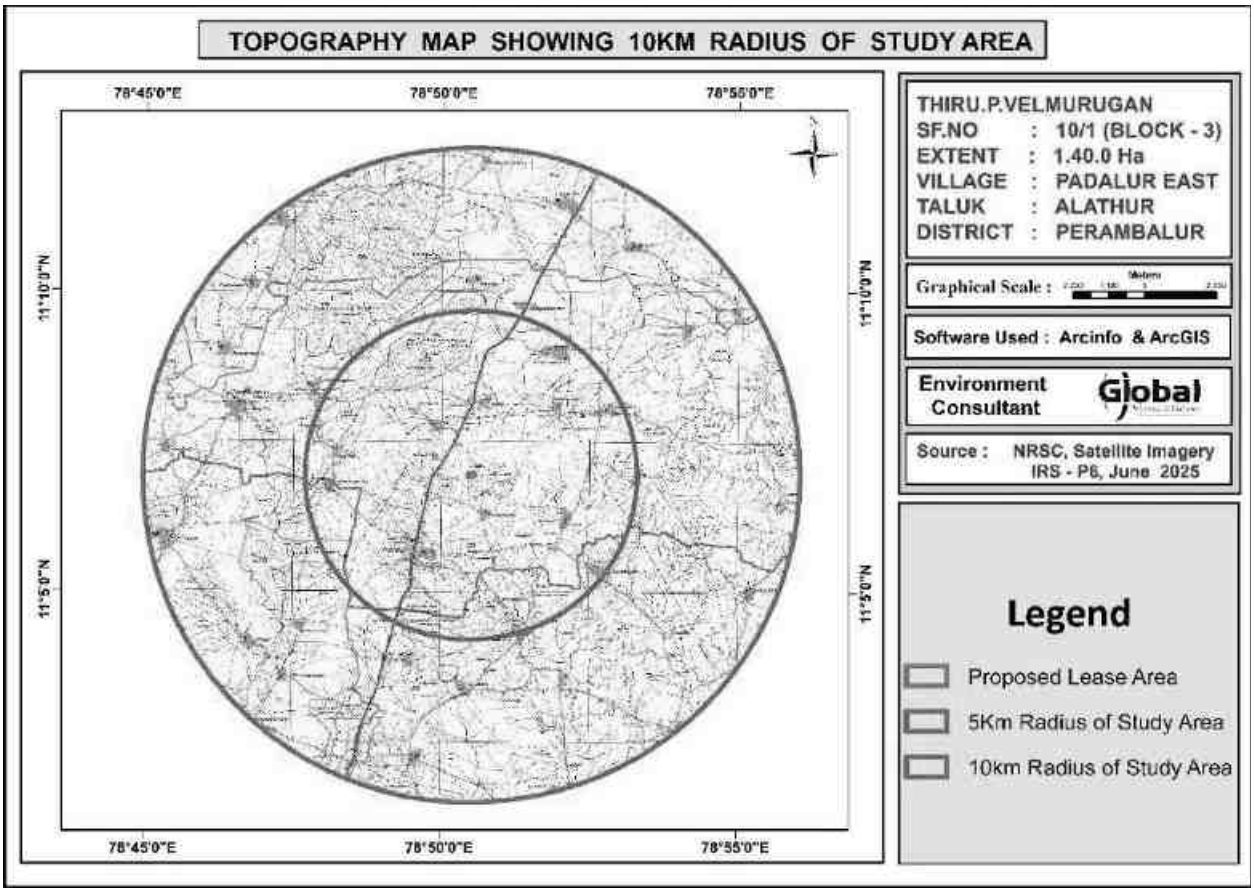


FIGURE - 3.3 Topo Map (10 KM RADIUS)



3.5 METEOROLOGICAL ENVIRONMENT

Meteorological conditions prevailing in the buffer zone is given below

3.5.1 Climate and Rainfall data

Permbalur district climate is semi-arid meaning it experiences significant heat, relatively low to moderate rainfall, and marked wet and dry seasons. The soils are mainly red loamy and black soils, which along with groundwater and wells/tube wells irrigate a substantial part of the agricultural area. Summers (especially April to June) are hot; maximum temperatures often exceed ~38-40 °C. Winters are mild; coolest months are January and February with night (minimum) temperatures dropping to ~20-21 °C. **Normal annual rainfall** is about **908 mm**. This is slightly lower than the state average of ~946.9 mm. Rainfall distribution by season: a) **Northeast monsoon (Oct-Dec):** ~52% of the annual rainfall b) **Southwest monsoon (Jun-Sep):** ~34-35% c) **Summer (pre-monsoon) + Winter**

(non-monsoon) months: remaining ~13-14%. Spatial variation within the district: Normal rainfall varies across localities. For the long historic period (1901-1970), the normal rainfall in different parts ranged from ~843.5 mm to ~1123.3 mm.

Table 3.2 Rainfall Data

Actual Rainfall in mm					**Normal Rainfall in mm**
2019	2020	2021	2022	2023	
747.3	629.2	1563.4	1043.8	737	816

3.5.2 Seismic information

The proposed project site falls in the seismic Zone II, low damage risk zone as per BMTPC, Vulnerability Atlas of Seismic zone of India IS: 1893 – 2002.

Table 3.3 Meteorological Data Recorded at Site

S.NO	Parameters		March to May 2025
1.	Temperature (^{0}C)	Min	13.5
		Max.	38.7
		Avg	26.0
2.	Relative Humidity (%)	Min	59
		Max	82
		Avg	71
3.	Wind Speed (m/s)	Min	0
		Max	4.6
		Avg	2.3
4.	Wind Direction	Blowing From – W	

FIG 3.4 SEISMIC MAP OF INDIA

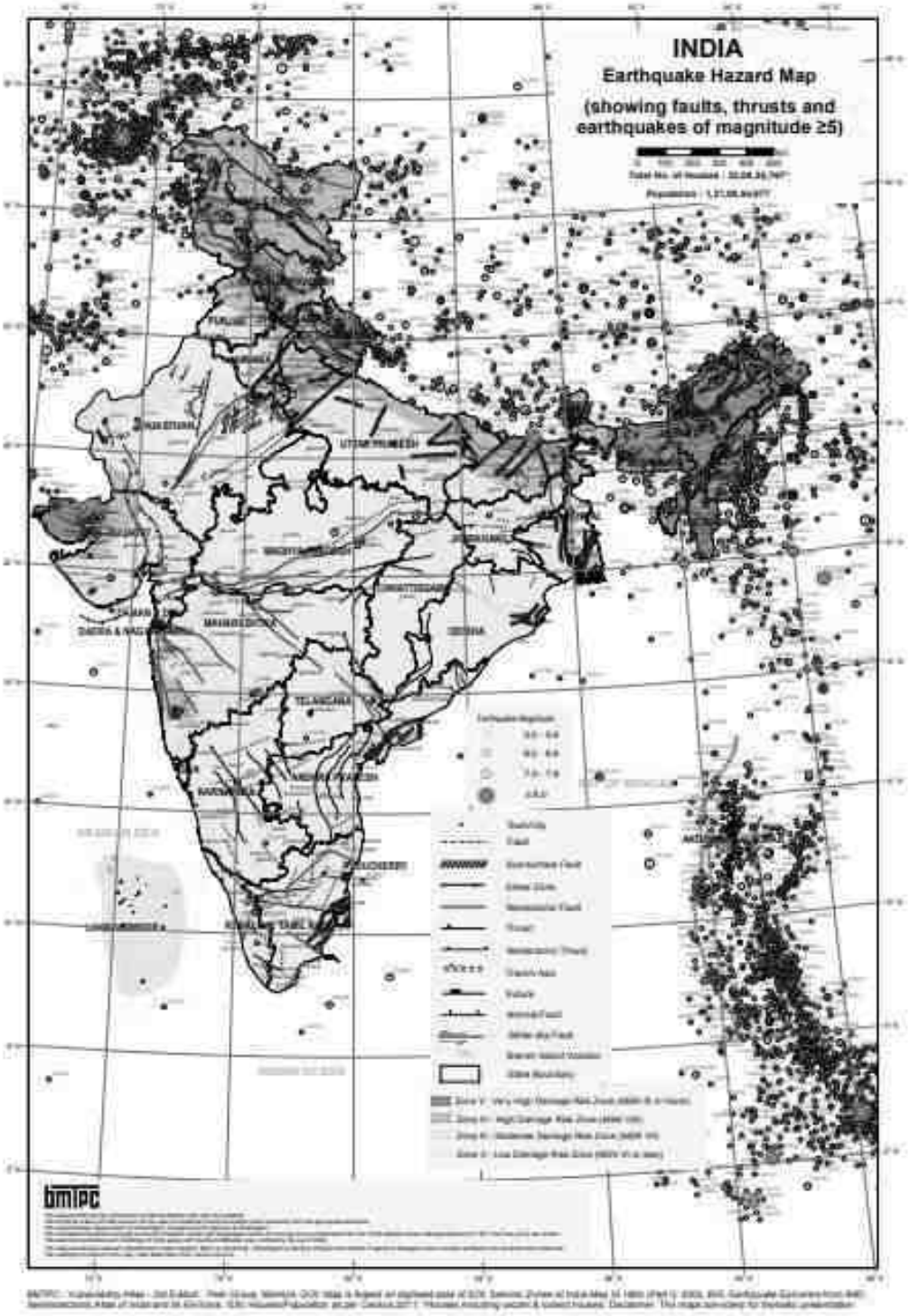
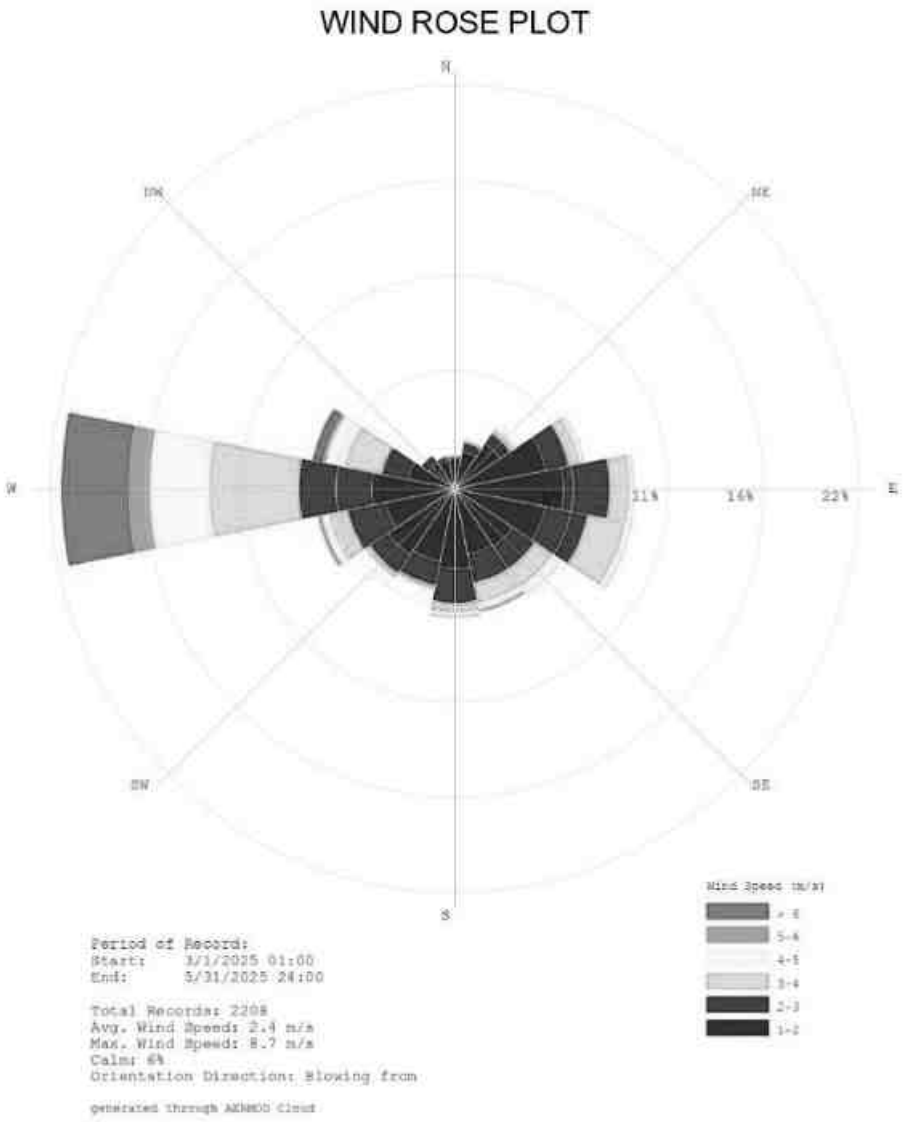


FIG 3.5 WIND ROSE PLOT DURING MARCH TO MAY 2025



3.5.3 Meteorological data of the project area

The meteorological data collected in the study area from March 2025 to May 2025 which includes Temperature, Wind speed and Wind direction. The predominant wind blows from West. The temperature of the area is reported to be 23°C and 31°C during summer.

3.6 AMBIENT AIR MONITORING DATA

Ambient air quality monitoring has been carried out in 7 locations. One in the core zone and remaining six locations in the buffer zone areas. Monitoring locations have been chosen such that the measurement represents the overall air condition prevailing in the area. The study area represents mostly rural environment with stone mining quarries & crushers.

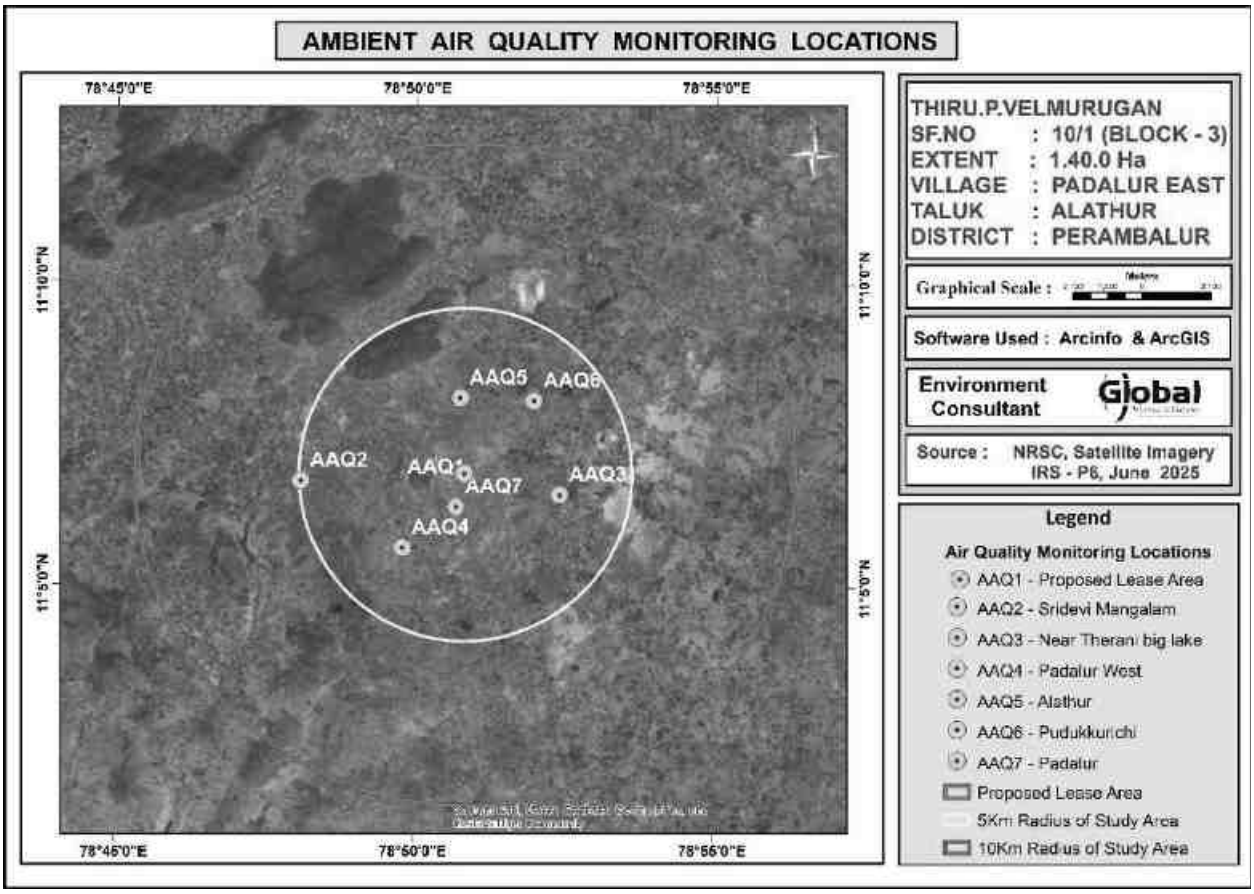
The regional climatologically data, was used as a guideline to know the predominant wind direction during study period. The locations were identified keeping in view predominant wind directions prevailing during study period, sensitive receptors, human settlements, and mining activities around.

The levels of Respirable Particulate Matter (PM10), Fine Particulates (PM2.5), Sulphur Dioxide (SO2) and Oxides of Nitrogen (NOx) were monitored for establishing the baseline status. PM10 were sampled with the help of Respirable Dust Samplers on filter papers and SO2 & NOx were absorbed in the respective absorption media in the impingers attached to RD samplers and analyzed Spectro-photometrically. PM2.5 was monitored with the help of Fine Particulate Samplers. The monitoring locations for ambient air study are given in Table – 3.3 and Figure 3.5 below.

Table 3.4 Details Of Ambient Air Quality Monitoring Locations

S. No.	Station Code	Locations	Coordinates
1	AAQ 1	Project site	11° 6'56.54"N & 78°50'30.00"E
2	AAQ 2	Sridevi Mangalam	11° 6'45.19"N & 78°48'6.12"E
3	AAQ 3	Near Therani Big Lake	11° 6'47.20"N & 78°52'9.17"E
4	AAQ 4	Padalur West	11° 5'41.47"N & 78°49'45.65"E
5	AAQ 5	Alathur	11° 7'36.71"N & 78°50'15.75"E
6	AAQ6	Pudhukkurichi	11° 8'5.47"N & 78°51'53.17"E
7	AAQ7	Padalur	11° 6'17.30"N & 78°50'41.19"E

FIG 3.6 BASE MAP OF AMBIENT AIR MONITORING LOCATIONS



The concentrations of various air pollutants at the 7 locations are given below. For all the components in the table, the unit are in $\mu g/m^3$.

Table.3.5 Results of Air sampling Analysis in 7 locations

Station ID	Min	Max	Avg.
Particulate matter PM-$_{2.5}$ ($\mu g/m^3$)			
AAQ-1	25.9	36.7	31.5
AAQ-2	22.4	28.6	25.6
AAQ-3	21.0	26.7	23.4
AAQ-4	21.8	29.4	25.3
AAQ-5	19.3	24.7	22.0
AAQ-6	21.0	27.1	23.7
AAQ-7	20.2	25.4	22.4
CPCB NAAQS 2009 for PM $_{2.5}$ - 60 $\mu g/m^3$			
Particulate matter PM-$_{10}$ ($\mu g/m^3$)			

AAQ-1	53.9	76.5	65.5
AAQ-2	46.7	59.5	53.4
AAQ-3	45.7	56.5	49.8
AAQ-4	47.8	59.1	53.4
AAQ-5	41.0	51.3	45.7
AAQ-6	44.3	57.2	50.0
AAQ-7	42.3	53.3	47.0
CPCB NAAQS 2009 for PM_{10} - 100 µg/m^3			
Sulphur Di-oxide as SO_2 (µg/m^3)			
AAQ-1	5.6	8.1	6.8
AAQ-2	5.8	8.2	7.0
AAQ-3	5.9	8.2	7.1
AAQ-4	4.2	6.6	5.4
AAQ-5	3.6	6.2	4.9
AAQ-6	3.8	5.5	4.8
AAQ-7	3.6	5.7	4.6
CPCB NAAQS 2009 for SO_2 – 80 µg/m^3			
Oxide of Nitrogen as NO_2 (µg/m^3)			
AAQ-1	11.3	13.5	12.5
AAQ-2	8.9	11.0	10.0
AAQ-3	9.2	11.8	10.5
AAQ-4	8.6	10.9	9.8
AAQ-5	7.8	10.1	9.0
AAQ-6	6.2	8.5	7.3
AAQ-7	6.9	9.2	8.1
CPCB NAAQS 2009 for NO_2 – 80 µg/m^3			

The results are summarized in graph and given as below Fig. 3.6

FIG 3.7 AMBIENT AIR QUALITY DATA A1 - MINE LEASE AREA

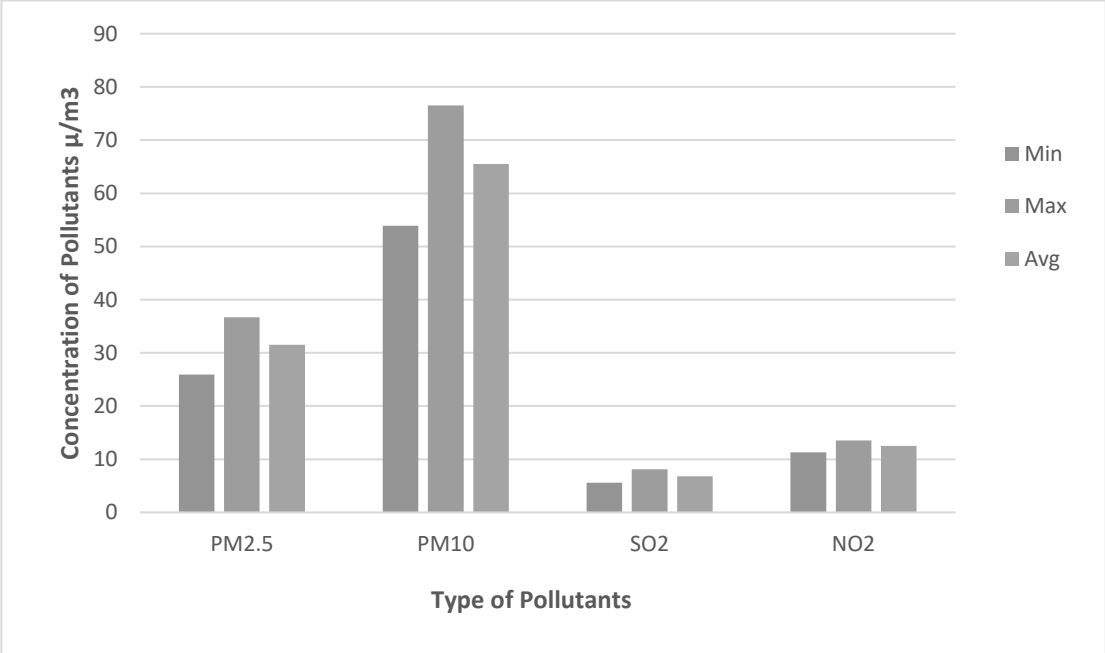


FIG 3.8 AMBIENT AIR QUALITY DATA A2 - SRIDEVI MANGALAM

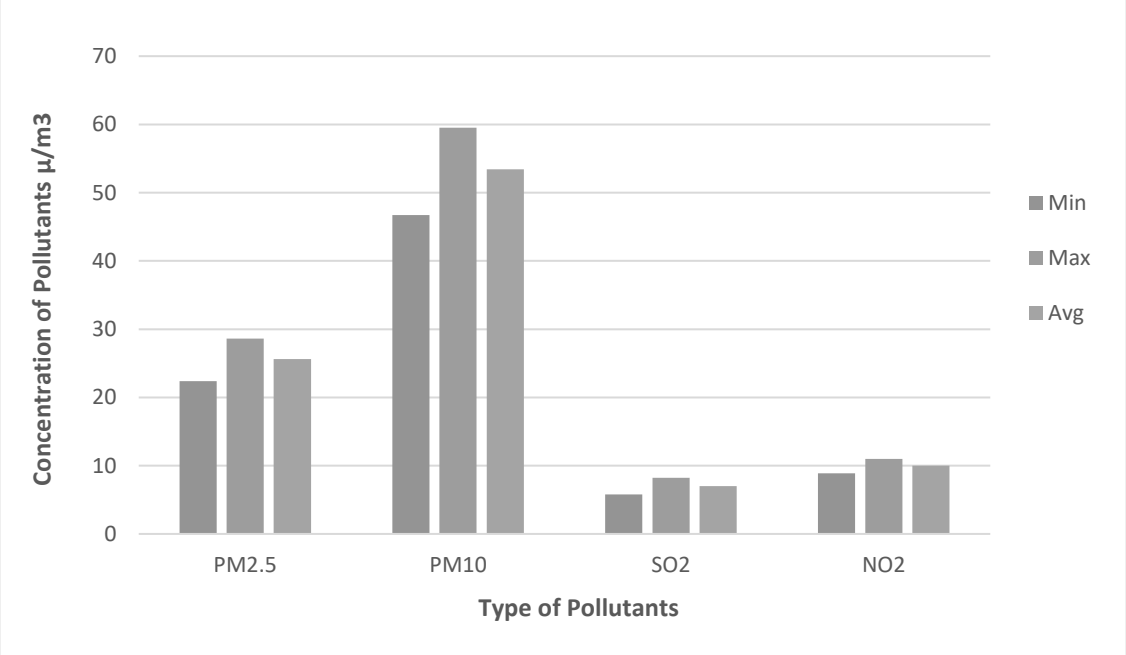


FIG 3.9 AMBIENT AIR QUALITY DATA A3 – NEAR THERANI BIG LAKE

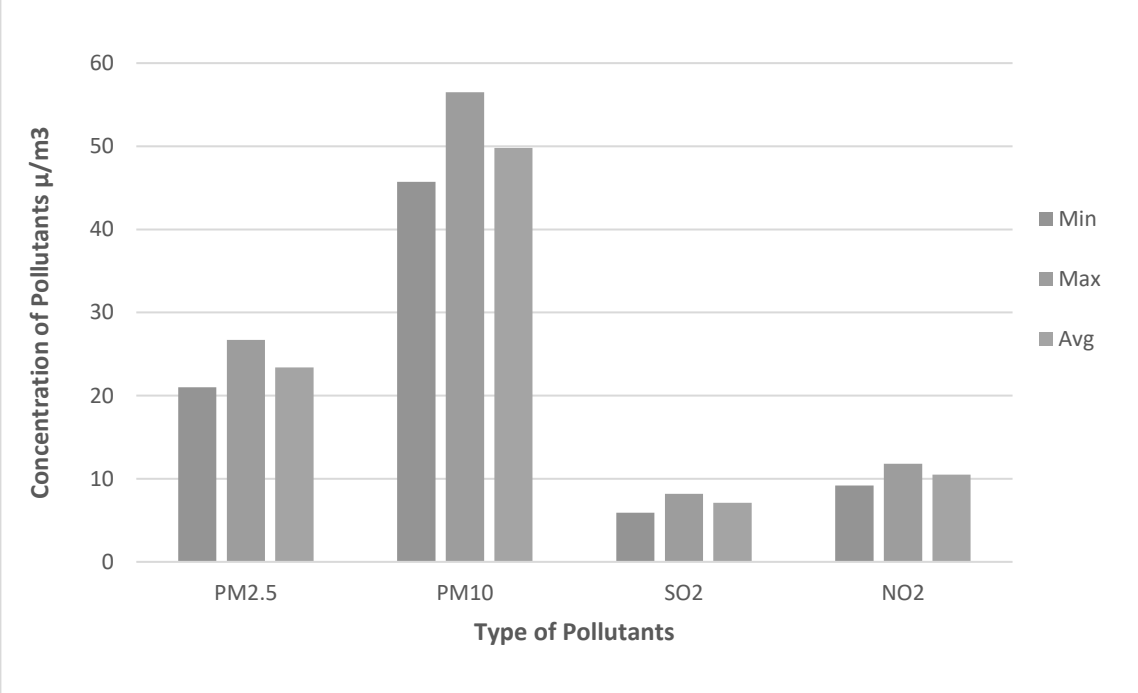


FIG 3.10 Ambient Air Quality DATA A4 - PADALUR WEST

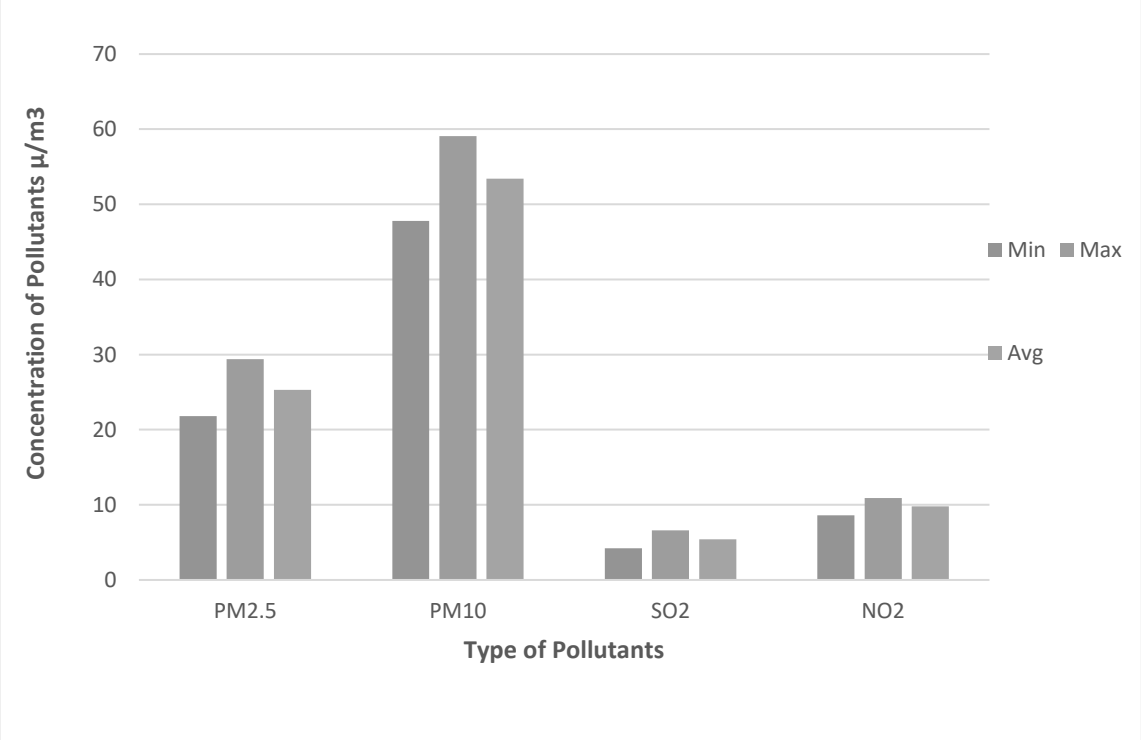


FIG 3.11 AMBIENT AIR QUALITY DATA A5 - ALATHUR

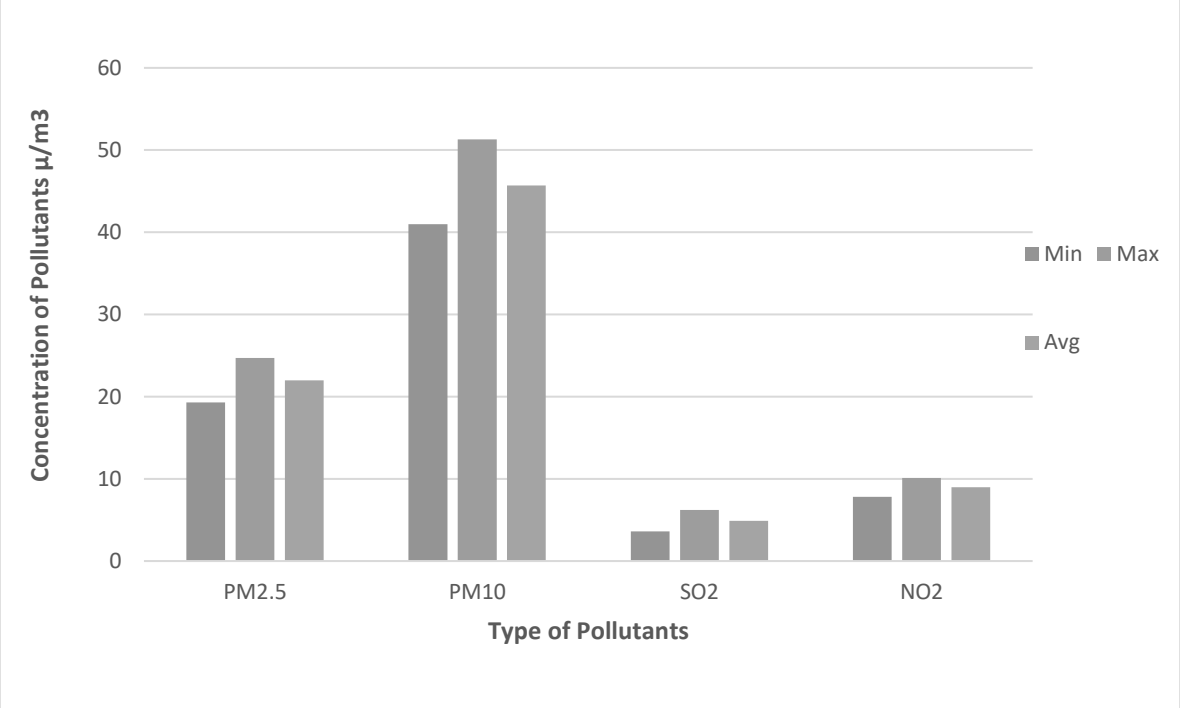


FIG 3.12 AMBIENT AIR QUALITY DATA A6 – PUDHUKKURICHI

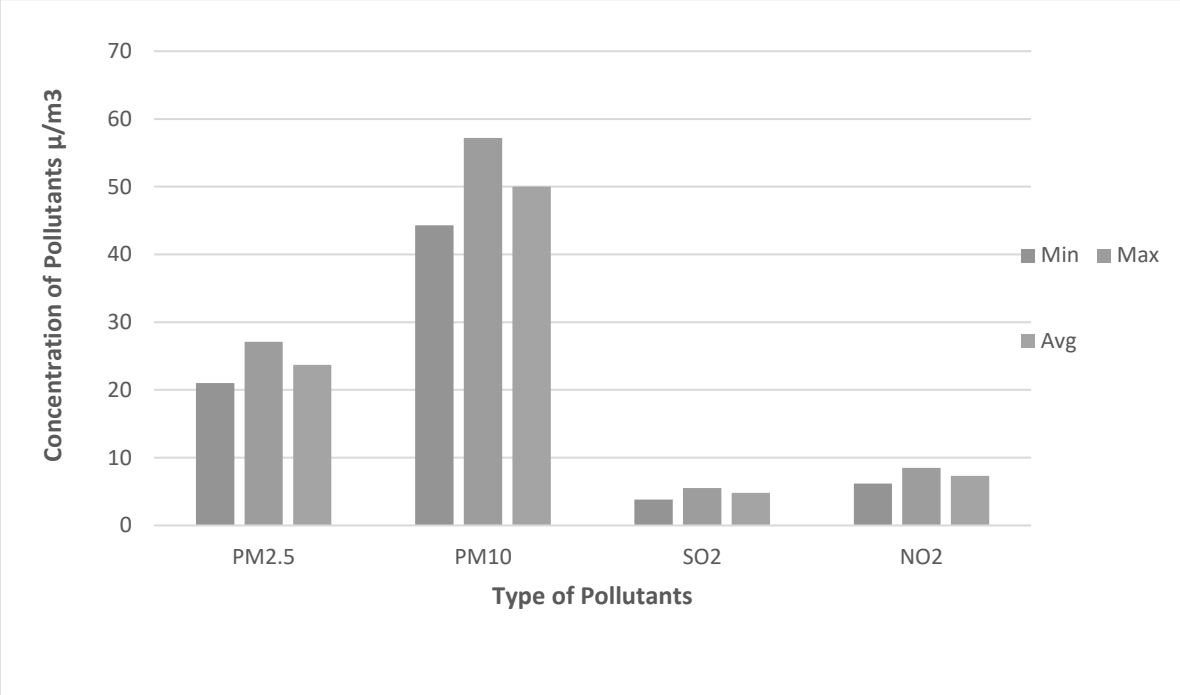
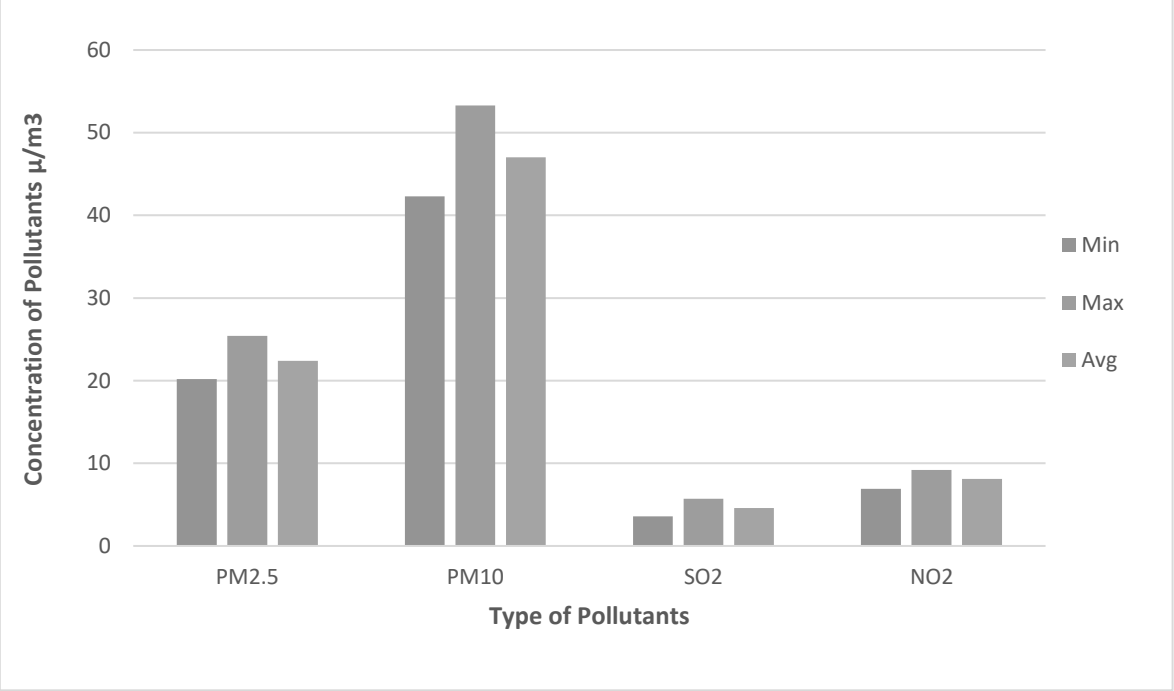


FIG 3.13 AMBIENT AIR QUALITY DATA A7 – PADALUR



From the above results, it is observed that the ambient air quality with respect to PM_{10}, $PM_{2.5}$, SO_2, and NO_2 at all the monitoring locations was within the permissible limits specified by CPCB.

3.6.1 DISCUSSION

From the table it is seen that, in the ambient air, the PM10 values were in the range of 41.0 – 76.5 µg/m3. PM2.5 values were in the range of 19.3 – 36.7 µg/m3. SO2 levels were ranging from 3.6 – 8.2 µg/m3. NO2 levels were ranging from 6.20 – 13.5 µg/m3. While comparing with the NAAQ Norms laid by MoEFCC, all monitored values of PM10, PM2.5, SO2, NO2 & CO were found to be well within the prescribed standards. The CO values in the all locations found to be below detectable limit (DL – 1144 µg/m3).

3.7 WATER ENVIRONMENT

Assessment of baseline data on water environment includes:

- Identification of water resources
- Collection of water samples
- Analyzing water samples collected for physico-chemical parameters as per standards.

3.7.1 Surface Water

No major river is found nearby the lease applied area.

Water bodies in buffer zone:

Tank –260km (S)

Tank – 620m (SE),

Maruthadi Eri-1.35Km (SW),

Therani Big Lake-4.16Km(SE),

Nanthai River – 4.3 km (S)

The area is studded with few tanks that serve as the source for agriculture and also their surplus feeds adjoining tanks. The rainfall over the area is moderate, the rainwater storage in open wells, trenches is in practice over the area and the stored water acts as source of freshwater. The prevailing status of surface water quality has been assessed during the study period. Surface water quality locations and results are provided in Table 3-14 and Figure 3.11.

3.7.2 Ground Water

The rainfall is the main source for the availability of water both in surface and sub-surface. The quantum of rainfall varies every year depending upon the monsoon. However, the extraction of surface and sub-surface water is increasing year by year. It leads to environmental impact on the water sources like depletion of water level, deterioration of water quality. It makes the demand for the quantification of available water and also its quality for various purposes like agriculture, industries, drinking and domestic purposes. Total Seven (7) ground water monitoring locations were identified for assessment in different villages around the project site based on the usage of sub surface water by the settlements/ villages in the study area. The

groundwater results are compared with the acceptable and permissible water quality standards as per IS: 10500 (2012) for drinking water. Groundwater quality monitoring locations and results are given in Table 3.5 and Figure 3.11.

3.7.3 Sampling Locations

Three (3) surface water samples and Seven (7) ground water samples were collected from the study area and were analysed for physio-chemical, heavy metals and bacteriological parameters in order to assess the effect of mining and other activities on water bodies. The samples were analysed as per the procedures specified by CPCB, IS-10500:2012. The water sampling locations are given in Table 3.5 and shown as Figure 3.12.

The monitoring locations were selected based on:

- Location of the major water bodies
- Location of project site,
- Likely areas that can represent baseline conditions

Table 3.6 Water Sampling Locations

S.NO	Location Code	Monitoring Locations	Latitude and longitude
Surface Water			
1	SW1	Nattaramangalam Eri	11°6'56.20"N & 78°49'42.63"E
2	SW2	Nanthai River (up Stream)	11°5'2.72"N & 78°49'37.01"E
3	SW3	Nanthai River (Down Stream)	11°4'40.43"N & 78°50'36.17"E
Ground Water			
1	GW1	Mine Lease Area	11° 6'56.54"N & 78°50'30.00"E
2	GW2	Sridevi Mangalam	11° 6'45.19"N & 78°48'6.12"E
3	GW3	Near Therani Big Lake	11° 6'47.20"N & 78°52'9.17"E
4	GW4	Padalur West	11° 5'41.47"N & 78°49'45.65"E
5	GW5	Alathur	11° 7'36.71"N & 78°50'15.75"E
6	GW6	Pudhukkurichi	11° 8'5.47"N & 78°51'53.17"E
7	GW7	Padalur	11° 6'17.30"N & 78°50'41.19"E

FIG 3.14 BASE MAP OF GROUND WATER SAMPLING LOCATIONS

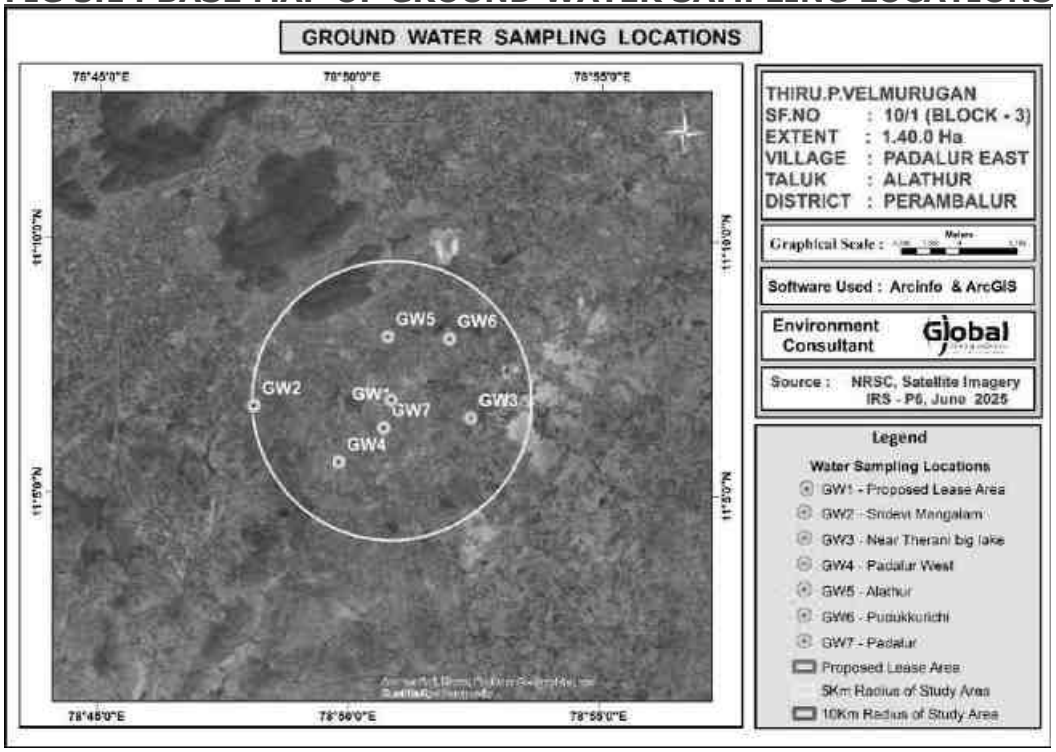


FIG 3.15 BASE MAP OF SURFACE WATER SAMPLING LOCATIONS

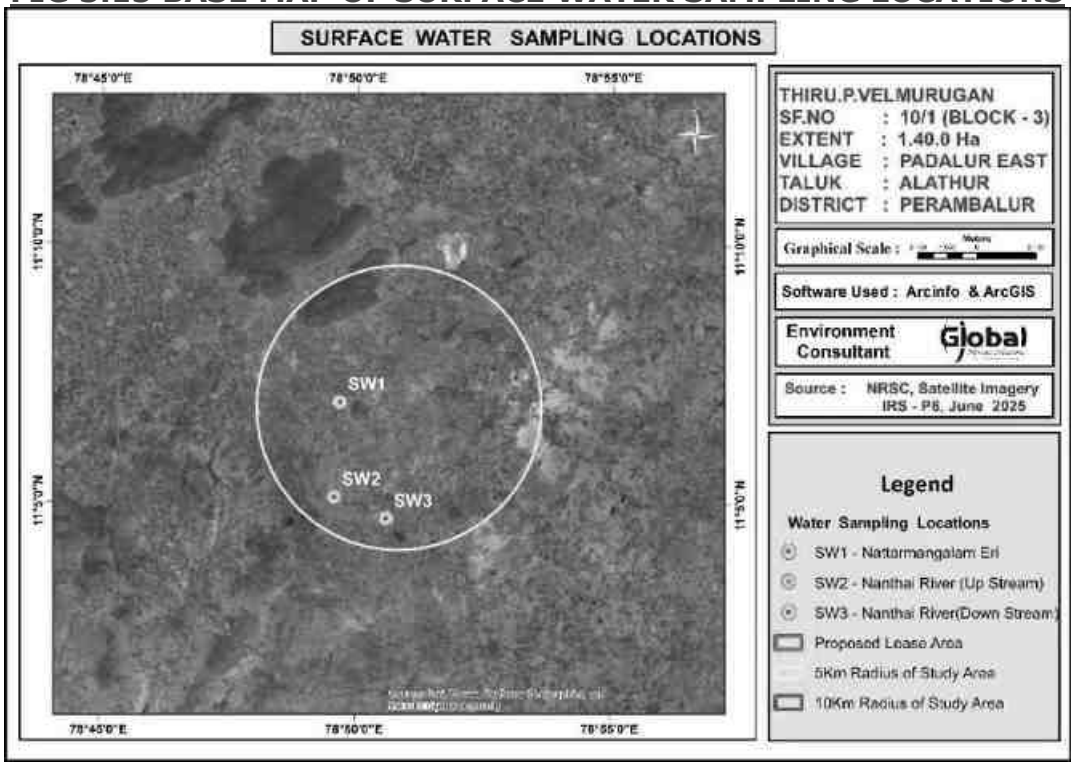


Table 3.7 Surface Water Analysis Results

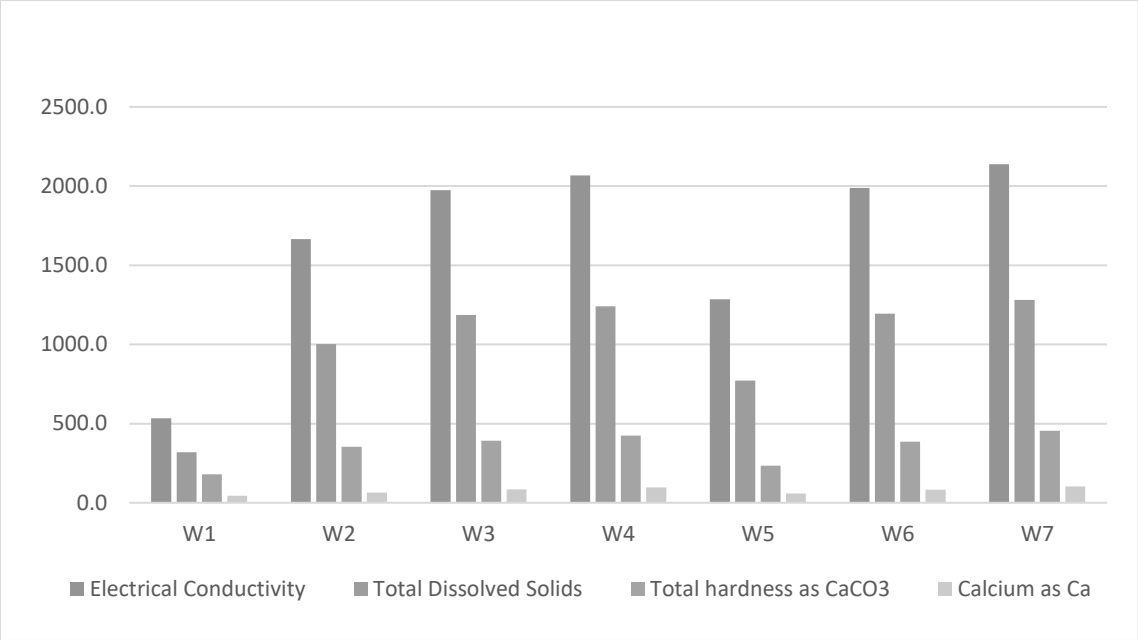
S.No	Parameter	Unit	SW1	SW2	SW3	Surface water standard s (IS 2296 Class-A)
1	Odour	-	Agreeable	Agreeable	Agreeable	-
2	Turbidity	NTU	<1	<1.0	<1.0	1
3	pH at 25 °C	-	7.52	7.94	7.85	6.5-8.5
4	Electrical Conductivity	µs/cm	218.6	167.9	192.3	-
5	Total Dissolved Solids	mg/l	132	102	115	500
6	Total hardness as $CaCO_3$	mg/l	47.2	35.2	42.5	-
7	Calcium as Ca	mg/l	10.56	10.36	9.8	300
8	Magnesium as Mg	mg/l	4.99	2.23	4.3	-
9	Calcium as $CaCO_3$	mg/l	26.4	25.9	24.5	-
10	Magnesium as $CaCO_3$	mg/l	20.8	9.30	18.0	-
11	Total alkalinity as $CaCO_3$	mg/l	45.6	37.2	42.2	-
12	Chloride as Cl^-	mg/l	42.8	40.8	39.8	-
13	Free Residual chlorine as Cl^-	mg/l	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	250
14	Sulphates as SO_4^{2-}	mg/l	15.2	16.9	16.1	400
15	Iron as Fe	mg/l	0.15	0.12	0.1	1.0
16	Nitrate as NO_3	mg/l	BDL(D.L-1.0)	2.14	1.95	20
17	Fluoride as F	mg/l	0.21	0.45	0.42	1.5
18	Manganese as Mn	mg/l	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	0.5
19	COD	mg/l	BDL(D.L-4.0)	BDL(D.L-4.0)	BDL(D.L-4.0)	
20	BOD	mg/l	BDL(D.L-2.0)	BDL(D.L-2.0)	BDL(D.L-2.0)	
21	TSS	mg/l	22.0	12.0	10.0	
22	DO	mg/l	5.8	6.1	6.3	

The samples were analyzed by Shrient Analytical & Research Labs Private Limited; Chennai and the results are summarized below.

Table 3.8 Results of Ground Water sampling Analysis in 7 locations								Standards as Per IS 10500: 2012	
Parameter	**W1**	**W2**	**W3**	**W4**	**W5**	**W6**	**W7**	**Acceptable Limits**	**Permissible Limits**
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity	<1	<1.0	<1.0	<1	<1	<1	<1	1	5
pH at 25 °C	7.92	7.84	7.19	7.91	7.45	7.77	7.36	6.5- 8.5	No Relaxation
Electrical Conductivity	532.5	1665	1975.0	2068.0	1286.0	1989.0	2137.0	-	-
Total Dissolved Solids	320	1002	1186	1240	772	1194	1282	500	2000
Total hardness as CaCO3	180	354	392	424	235	385	454	200	600
Calcium as Ca	44.8	64.4	84	96.8	57.6	83.2	102	75	200
Magnesium as Mg	16.3	46.3	43.7	43.7	21.8	42.5	47.5	30.0	100
Calcium as CaCO3	112	161	210	242	144	208	256	-	-
Magnesium as CaCO3	68.0	193	182	182	91.0	177	198	-	-
Total alkalinity as CaCO3	162	327	380	399	260	376	392	200	600
Chloride as Cl-	76.9	342	365	380	241	363	510	250	1000
Free Residual chlorine as Cl-	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	0.2	1
Sulphates as SO42-	55.8	270	342	355	206	338	212	200	400
Iron as Fe	0.05	0.12	0.11	0.12	0.04	BDL(D.L-0.01)	0.03	0.3	No Relaxation
Nitrate as NO3	BDL(D.L-1.0)	2.14	4.65	5.23	4.32	5.62	5.51	45	No Relaxation
Fluoride as F	0.21	0.48	0.55	0.62	0.42	0.63	0.58	1	1.5
Manganese as Mn	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	0.1	0.3

Some of the common parameters including EC, TDS, Total Hardness, Total Alkalinity, Chlorides and Sulphates in the 6 locations were plotted and the graph is provided below.

FIG 3.14 VALUES OF FEW COMMON PARAMETERS IN WATER ANALYSIS



All the values were found to be within the permissible limits.

3.7.4 DISCUSSION

Surface Water

The pH varied from 7.52 to 7.94 while turbidity found within the standards (Optimal pH range for sustainable aquatic life is 6.5 to 8.5 pH). Total Dissolved Solids varied from 102 to 132 mg/l. Chloride varied between 39.8 mg/l and 42.8 mg/l. Nitrates varied from 0 to 2.14 mg/l, while sulphates varied from 15.2 to 16.9 mg/l.

Ground Water

Suitability of ground water for drinking/irrigation/industrial purposes is determined keeping in view the effects of various chemical constituents present in water as required human use, plant use. Though many ions are very essential for the growth of plants and human body but when present in excess, have an adverse effect on health and growth.

As Per the data it has been observed that the pH value varies from 7.19 to 7.92, Chlorides Ranges From 76.9 - 510 mg/l, Sulphates value found to be between 55.8 - 355 mg/l, Fluoride Ranges low in lease area i.e. 0.21 – 0.63, Hardness varies from 180 – 454 mg/l, and Total dissolved solid 320 – 1282 mg/l. The ground water has been analyzed as per IS10500: 2012 and found to be suitable for drinking purpose. So, the results of chemical and bacteriological analysis of water samples are classified under good class for drinking purpose with respect to total dissolved solids. Total hardness of the samples ranged from soft to moderately hard waters and can be fairly used for drinking. Regular ground water monitoring is suggested as the quality of ground water may fluctuate with groundwater consumption and seasonal variations.

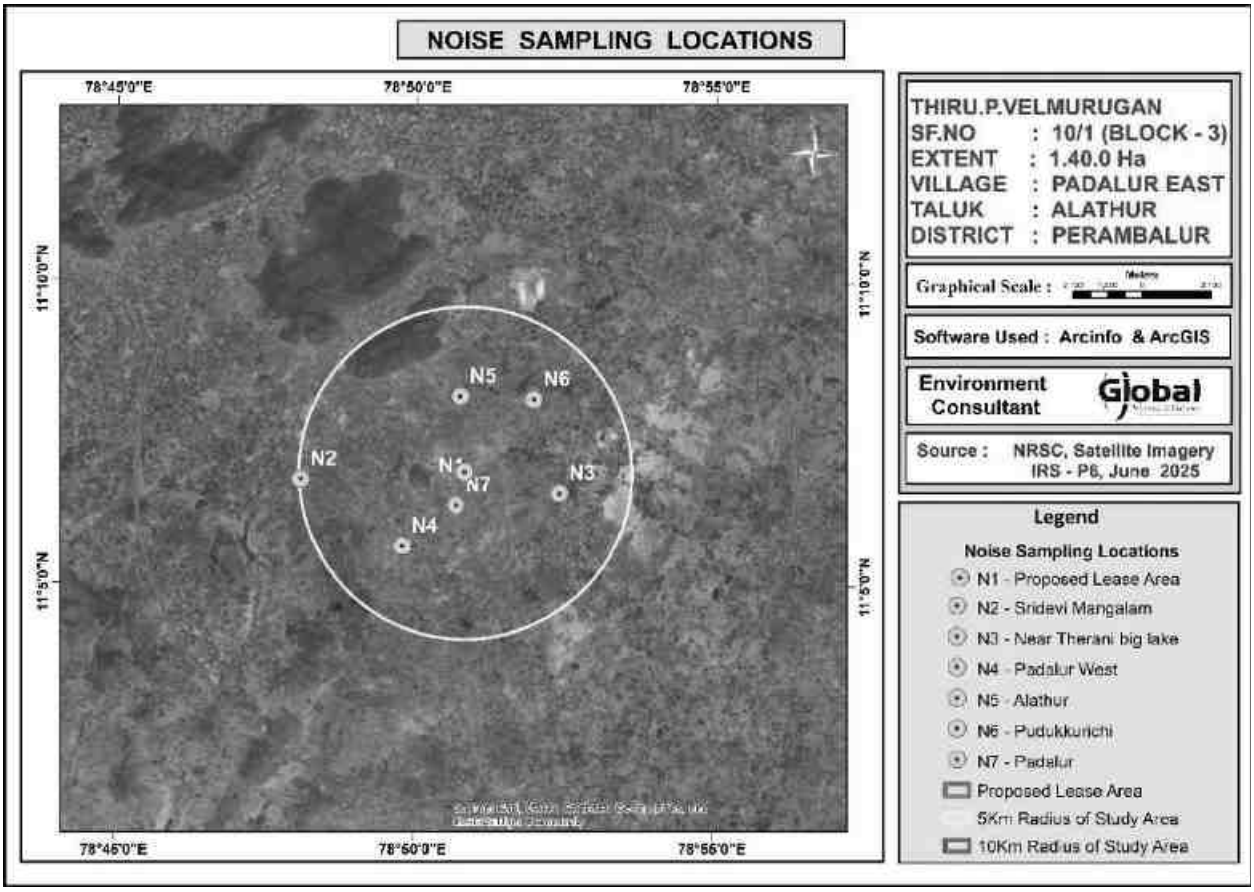
3.8 NOISE MONITORING

Noise level monitoring was calculated using a noise level meter by NABL Accredited lab and the results are summarized below.

The noise monitoring locations are given in Fig 3.14

S.NO	Location Code	Monitoring Locations	Latitude and longitude
1	N1	Within Mine Lease area	11° 6'56.54"N & 78°50'30.00"E
2	N2	Sridevi Mangalam	11° 6'45.19"N & 78°48'6.12"E
3	N3	Near therani big lake	11° 6'47.20"N & 78°52'9.17"E
4	N4	Padalur West	11° 5'41.47"N & 78°49'45.65"E
5	N5	Alathur	11° 7'36.71"N & 78°50'15.75"E
6	N6	Pudhukkurichi	11° 8'5.47"N & 78°51'53.17"E
7	N7	Padalur	11° 6'17.30"N & 78°50'41.19"E

FIG 3.15 BASE MAP OF NOISE MONITORING LOCATIONS



3.8.1 METHOD OF MONITORING

Noise levels were measured using sound level meter manufactured by (Model No - SL4001, Make - Lutron). Sound Pressure Level (SPL) measurements were measured at all locations where ambient air quality monitored; one reading for every hour was taken for 24 hours.

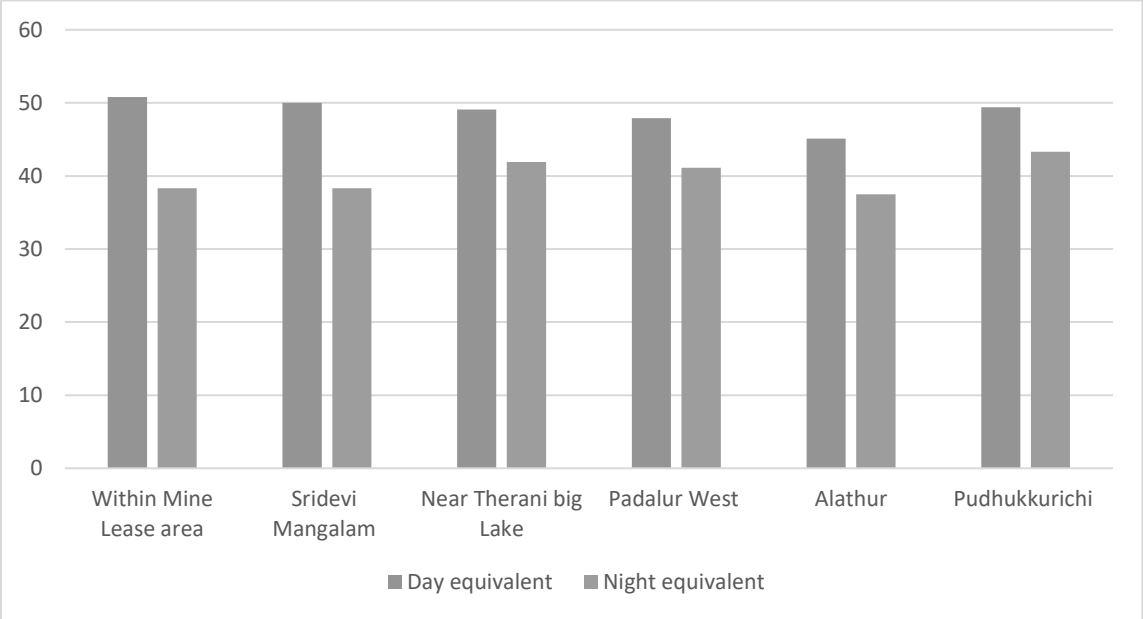
3.8.2 NOISE MONITORING RESULT

An analysis of the different Leq data obtained during the study period has been made. Variation was noted during the day-time as well as night-time. The results are given in Table below.

Table 3.9 Noise monitoring results					
S. No	**Location**	**Day equivalent**	**Night equivalent**	**Day equivalent limits by CPCB**	**Night equivalent limits by CPCB**
1	Within Mine Lease area	50.8	38.3	75	70
2	Sridevi Mangalam	50.0	38.3		
3	Near Therani big Lake	49.1	41.9		
4	Padalur West	47.9	41.1		
5	Alathur	45.1	37.5		
6	Pudhukkurichi	49.4	43.3		
7	Padalur	50.8	39.2		

The results are plotted as below.

FIG 3.16 DAY AND NIGHT EQUIVALENT VALUES IN 7 LOCATIONS



All the values are found to be within CPCB norms.

3.7.5 DISCUSSION

From the table it is observed that the day Equivalent Noise (Leq-d) level were ranging from 45.1 to 50.8 dB(A) and Night Equivalent Noise (Leq-n) level were ranging from 37.50 to 41.9 dB(A). Day and Night Equivalent Noise (Leq-n) level were ranging from 43.70 to 49.2 dB(A). While comparing with the MoEFCC Norm of

55 dB(A) for day time and 45 dB(A) for night time in Residential areas, the monitored ambient noise levels are within the limit values.

After commencement of mine operation the anticipated noise level will be 52 dB – 65 dB in the N1 location. (Project Site). It is very negligible and within the prescribed standards of MoEFCC and DGMS.

3.9 SOIL SAMPLING ANALYSIS

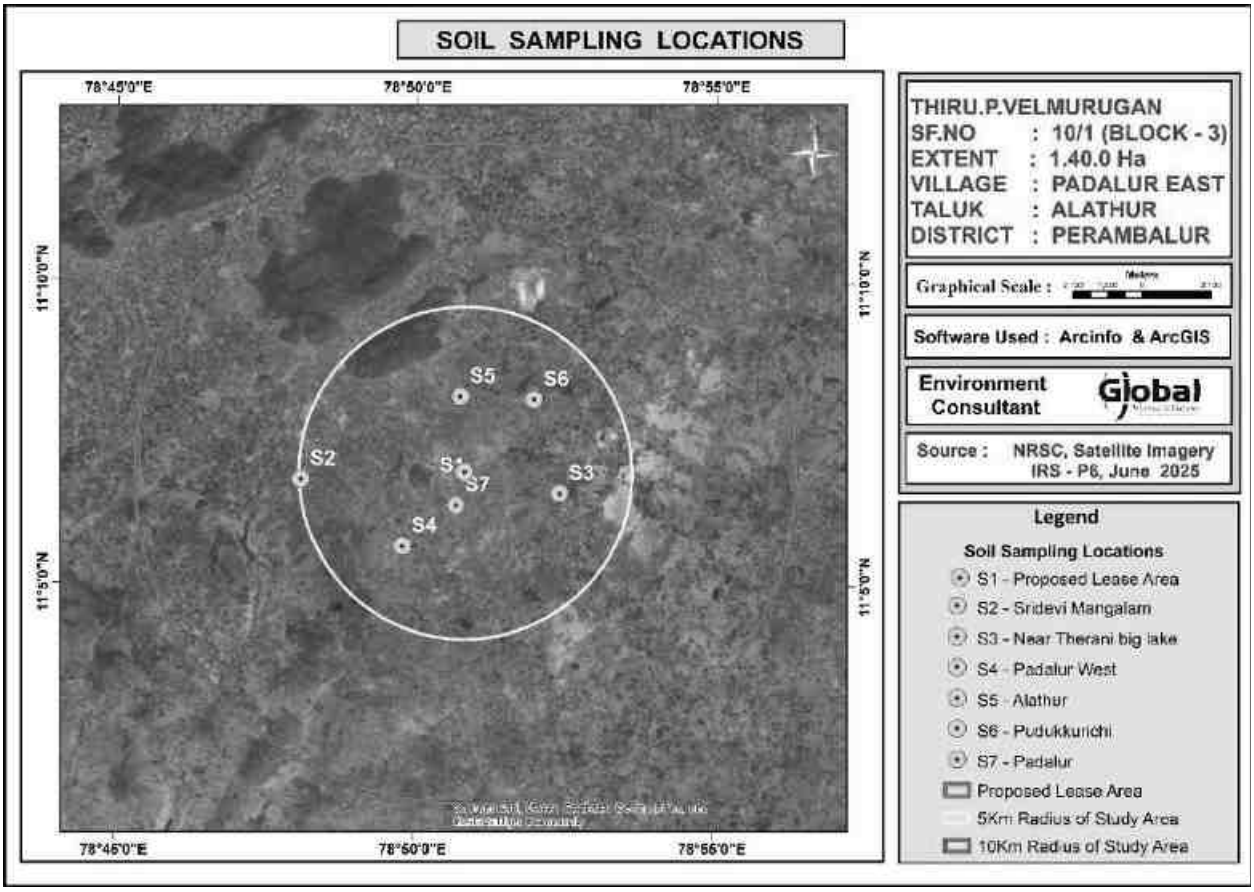
Soil quality of the study area is one of the important components of the land environment. The composite soil samples were collected from the study area and analyzed for different parameters. The locations of the monitoring sites are detailed in Table 3.12 and Figure 3.14.

3.9.1 MONITORING LOCATIONS

Soil samples have been collected from the mine lease area and 6 other locations from Sridevi Mangalam, Near Therani Big Lake, Padalur West, Alathur, Pudhukkurichi and Padalur Villages. The locations are shown in figure below.

S.No	Location Code	Monitoring Locations	Latitude and longitude
1	S1	Within Mine Lease area	11° 6'56.54"N & 78°50'30.00"E
2	S2	Sridevi Mangalam	11° 6'45.19"N & 78°48'6.12"E
3	S3	Near Therani Big Lake	11° 6'47.20"N 78°52'9.17"E
4	S4	Padalur West	11° 5'41.47"N & 78°49'45.65"E
5	S5	Alathur	11° 7'36.71"N & 78°50'15.75"E
6	S6	Pudhukkurichi	11° 8'5.47"N & 78°51'53.17"E
7	S7	Padalur	11° 6'17.30"N & 78°50'41.19"E

FIG 3.17 BASE MAP OF SOIL SAMPLING LOCATIONS



3.9.2 METHODOLOGY

For studying soil quality, sampling locations were selected to assess the existing soil conditions in and around the project site representing various land use conditions. The samples were collected by auger boring into the soil up to 90-cm depth. Seven locations were selected for soil sampling on the basis of soil types, vegetative cover, industrial & residential activities including infrastructure facilities, which would accord an overall idea of the soil characteristics.

Composite grab samples of the topsoil were collected by specified depth, and mixed to provide a representative sample for analysis. They were stored in airtight Polythene bags and analyzed at the laboratory.

The results are summarized in the table below.

Table 3.10 RESULTS OF SOIL SAMPLE ANALYSIS

S. No	Parameter	Unit	S1	S2	S3	S4	S5	S6	S7
1	pH at 25 °C	-	7.42	7.94	8.06	7.95	7.89	8.12	7.92
2	Electrical Conductivity	µmhos /cm	192.2	290.8	220.4	273.5	190.2	295.6	265.7
3	Dry matter content	%	96.29	96.52	97.21	86.54	97.25	93.67	92.58
4	Water Content	%	3.71	3.48	2.79	13.46	2.75	6.33	7.42
5	Organic Matter	%	0.84	0.95	0.82	1.32	0.77	0.95	1.03
6	Soil texture	-	Silty Clay loam	Silty Clay	Silty Clay	Clay	Silty Clay	Silty Clay	Silty Clay
7	Grain Size Distribution								
	i. Sand		15.76	10.42	8.55	17.05	13.22	10.79	7.89
8	ii. Silt	%	45.57	44.33	42.75	38.97	42.76	45.66	41.32
9	iii. Clay	%	38.67	45.25	48.7	43.98	44.02	43.55	50.79
10	Phosphorous as P	mg/kg	1.31	1.62	1.24	1.67	1.36	1.61	1.74
11	Sodium as Na	mg/kg	302	322	346	498	535	420	396
12	Potassium as K	mg/kg	574	664	735	904	1030	634	652
13	Nitrogen and Nitregenous Compounds	mg/kg	270	405	146	205	254	312	175
14	Total Soluble Sulphate	%	BDL(D. L.0.02)	BDL(D. L.0.02)	BDL(D. L.0.02)	BDL(D. L.0.02)	BDL(D. L.0.02)	BDL(D. L.0.02)	BDL(D. L.0.02)
15	Water Holding Capacity	Inches /foot	38	38	40	41	42	40	42
16	Porosity	%	19.4	19.4	17.9	17.1	18.9	18.2	17.3

3.9.3 DISCUSSION

Results of the soil samples show that the pH values were found to be 7.42 to 8.12 and Electrical Conductivity values were ranging between 192.2 – 295.6 µmhos/cm. Soils are generally Silty Clay. Organic matter values were ranging between 0.77 – 1.32 %. Total Nitrogen values were ranging between 146 – 405 mg/kg. Phosphorus values were ranging between 1.24 – 1.74 µg/g. Potassium values were ranging

between 574 – 1030 mg/kg. Sodium values were ranging between 302 – 535 mg/kg.

Total Sulphur values were observed to be BDL. The soil quality data for the 7 samples collected and analyzed are provided in Table no – 3.13.

3.10 BIOLOGICAL ENVIRONMENT

Study of the biological environment of any area comprises of well-planned ecological survey for the floristic and faunal composition of the areas through various scientifically planned techniques. Accordingly, the ecological survey for the proposed Rough stone quarry area including core and buffer zone were carried out to identify various species occurring in the area.

3.10.1 FLORA

An ecological survey of the study area was conducted with reference to listing of species and assessment of the existing baseline ecological (Terrestrial Ecosystems) conditions. The objective of the survey is as follows:

- Generate existing data from field observations of various terrestrial floristic occurrences.
- Collect secondary data from Government records as well as through discussion with Forest officials, knowledgeable public etc.,
- Compare the data with authentic past records to identify changes, if any.
- Identify the impact of project operations on the biological aspects.

To accomplish the above objectives, a general ecological survey covering an area of 10 km radius was conducted. The locations were identified for phyto-sociological aspects to assess the current status.

3.10.1.1 FLORISTIC COMPOSITION IN CORE ZONE

The lease area is a non- forest, Government land with scrub and thorny bushes. In the core zone, there are no trees.

S.No	Local Name	Scientific Name	Family Name	IUCN Conservation Status
Trees				
1	Kondrai	*Cassia fistula*	Caesalpiniaceae	Not Listed
2	Seetha	*Annona squamosa*	Annonaceae	Not Listed
3	Vembu	*Azadirachta Indica*	Meliaceae	Not Listed
4	Karuvelam	*Vachellia Nilotica*	Fabaceae	Not Listed
Shrubs				
1	Erukku	*Calotropis Gigantea*	Apocynaceae	Not Listed
2	Chundai	*Solanum torvum*	Solanaceae	Not Listed
3	Thuthi	*Abutilon Indicum*	Meliaceae	Not Listed
4	Unnichedi	*Lantana camara*	Verbenaceae	Not Listed
Herbs				
1	Kuppaimeni	*Acalypha indica*	Euphorbiaceae	Not Listed
2	Nelavembu	*Andrographis paniculata*	Acanthaceae	Not Listed
3	Kovakkai	*Trichosanthes Dioica*	Cucurbitaceae	Not Listed
4	Perandai	*Cissus Quadrangularis*	Vitaceae	Not Listed
5	Thumbai	*Leucas Aspera*	Lamiaceae	Not Listed

3.10.1.2 FLORISTIC SCENARIO IN BUFFER ZONE AREA

The present report gives the review of published secondary data and the results of field sampling conducted during March to May 2025 and there are no forest blocks within 1 km radius of the project site. The detailed ecological assessment of the study area has been carried out and are presented in below Table.

3.10.2 List of Flora

Taxonomically a total of 86 species distributed among 56 families have been recorded from the buffer area. Based on habitat classification of the enumerated plants the majority of species were Trees 34 and herbs 32 followed by Shrubs (15), climbers 5. Details of flora with the scientific name were mentioned in Table No. 3.11.

Table 3.11 List of Flora

S.No	Local Name	Scientific Name	Family Name
	Trees		
1	Lemon	*Citrus limon*	Rutaceae
2	Krishna Fig	*Ficus benghalensis*	Moraceae
3	Karuvelam	*Acacia nilotica*	Fabaceae
4	chokla	*Agalaia elaeagnoidea*	Meliaceae
5	Vagai	*Albizia lebbeck*	Caesalpiniaceae
6	Seetha maram	*Annona Squamosa*	Annonaceae
7	kattu elumichai	*Atalantia monophyla*	Rutaceae
8	Vaeppa maram	*Azadirachta indica*	Meliaceae
9	vazhai	*Musa paradisiaca*	Musaceae
10	Guava	*Psidium gujava*	Myrtaceae
11	Karuvali	*Cassine glauca*	Celastraceae
12	Naruvizhi maram	*Cordia monoica*	Boraginaceae
13	Kattunochchi	*Debregaesia velutina*	Urticaceae
14	Neruppu Kondrai	*Delonix regia*	Minosaceae
15	Nagai	*Syzygium cumini*	Myrtaceae
16	mull kalyanamurungai	*Erythrina stricta*	Fabaceae
17	Kallichi	*Ficus microcarpa*	Moraceae
18	atti	*Ficus racemosa*	Moraceae
19	Kattarasu	*Ficus tomentosa*	Moraceae
20	Kambimaram	*Gardenia resinifera*	Rubiaceae
21	Kumalaa maram	*Gmelina arborea*	Verbenaceae
22	Tambachi	*Holoptelea integrifolia*	Ulmaceae
23	Kunnancholai	*Mallotus Philippensis*	Euphorbiaceae
24	Peyimurungai	*Moringa concanensis*	Moringaceae
25	Malaithekku	*Premna tomentosa*	Verbenaceae
26	Peymiratti	*Schefflera stellata*	Araliaceae
27	Thaan-dri kaai	*Terminalia bellirica*	*Bahera*

	Shrubs		
1	Seethaatthazhai	*Acalypha fruiticosa*	Euphorbiaceae
2	peyimarutti	*Anisomeles malabarica*	Lamiaceae
3	Barleria paniculata	*Barleria tomentosa*	Acanthaceae
4	Turatti	*Capparis divaricate*	Capparidaceae
5	Sirukilaa	*Carissa spinarum*	Apocynaceae
6	Kodikalai	*Carmona retusa*	Boraginaceae
7	Virali	*Dodonaea viscosa*	Sapindaceae
8	Manjal Thutthi	*Hibiscus vitifolia*	Malvaceae
9	Karuppu avuri	*Indigofera longiracemosa*	Fabaceae
10	Velimungil	*Justicia betonica*	Acanthaceae
11	Sirunelli	*Phyllanthus polyphyllus*	Euphorbiaceae
12	Ottu Pullu	*Triumfetta pentandra*	Tiliaceae
	Herbes		
1	Kuppaimeni	*Acalypha indica*	Euphorbiaceae
2	perumpeelai	*Aerva persica*	Amaranthaceae
3	Katthaalai	*Aloe vera*	Agavaceae
4	Nilaccurunki	*Biophytum sensitivum*	Oxalidaceae
5	Nattai-churi	*Borreria pusilla*	Rubiaceae
6	Malaiyavarai	*Cassia hirsute*	Caesalpiniaceae
7	Cuvarnaciri Taivelai	*Cleome felina*	Caryophyllaceae
8	korai kizhangu	*Cyperus rotundus*	Cyperaceae
9	Karungurundhu	*Dicliptera cuneata*	Acanthaceae
10	Chinnammanpacharisi	*Euphorbia thymifolia*	Euphorbiaceae
11	Narina	*Indigofera cassioides*	Fabaceae
12	Nai Tulasi	*Ocimum canum*	Lamiaceae
13	Water peper	*Polygonum hydropiper*	Polygonaceae
	Climbers		
1	Mudakathan	*Cardiospermum halicacabum*	Sapin

2	Kattuppirantai	*Cayratia trifoliata*	Vitaceae
3	Pirantai	*Cissus bicolr*	Vitaceae
4	Kovai	*Coccinia indica*	Cucurbitaceae
5	Iviralkovai	*Diplocyclos palmatus*	Cucurbitaceae
6	Adambu	*Ipomoea pescarpae*	Convolvulaceae
	Grasses		
1	bread grass	*Brachiaria remota*	Poaceae
2	feather fingergrass	*Chloris dolichostachya*	Poaceae
3	spear grass	*Heteropogon contortus*	Poaceae

3.10.4 LIST OF FAUNA

A total of 52 species belonging were recorded in the buffer zone. Based on habitat classification the majority of species were 25 Aves, followed by 11 Reptiles, 8 Mammals, 5 Fishes and 3 Amphibians. The list of fauna within the study area is given in Table No – 3.12.

Table 3.12 List of Fauna

S.No	Common name	Scientific name	Family	IUCN / WPA schedule
MAMMALS				
1	Indian Palm squirrel	Funambulus palmarum	Squirrel	IV
2	Hare	Lepus nigricollis	Leporids	IV
3	House rat	Rattus rattus	Murids	IV
4	Mannuli paambu	Eryxjohni	Boidae	-
5	Indian Grey Mongoose	Herpestes edwardsii	Mongoose	IV
6	Field mouse	Rattus norvegicus	Murids	IV
7	Rusty spotted Cat	Felis rubiginosa	Felidae	IV
REPTILES				
1	Common Garden lizard	Calotes versicolor	Agamid lizards	IV
2	Rough tailed Sand boa	Gongylophis conicus	Boidae	IV
3	Indian Cobra	Naja naja	elapid snakes	II

4	Indian mud turtle	Lissemys punctate	Softshell turtles	IV
5	Common Green Snake	Passerita mycterizaris	Colubrid Snakes	IV
6	Common rat snake	Ptyas mucosus	Colubrid Snakes	II
BIRDS				
1	Grey Partridge	Francolinus pondicerianus	Phasianidae	IV
2	Indian Ring Dove	Streptopelia decaocto	Pigeons and doves	IV
3	Red collared dove	Streptopelia tranquebarica	Pigeons and doves	IV
4	Astur badius	Shikra	Accipitridae	IV
5	Black Drongo	Dicrurus macrocerus	Drongos	IV
6	House Sparrow	Passer domesticus	Sparrow	IV
7	Weaver bird	Ploceus Philippines	Ploceidae	IV
8	Rose Ringed Parakeet	Psittacula krameria	Parrots	IV
9	Little egret	Egretta garzetta	Heron	IV
10	Redvented BulBul	Pycnonotus cafer	Bulbul	IV
FISH				
1	Common carp	Cyprirus earpio	Minnows and Carps	IV
2	Tilapia	Oreochromis mossambicus	Cichlid	IV
3	Carplet	Amblypharyngodon Sp	Cyprinidae	IV
4	Trout	Chela sp	-	IV
5	Punctatus	Ophiocephalus	Snakehead	IV

The core zone of the area is Government land, No forest land is involved in the project area. The proposed quarry area is covered by thorny bushes. There is no Wild Life Sanctuary or National Park within the study area of 10km. There is no schedule I species of animals observed within study area as per Wildlife Protection Act 1972 as well as no species is in vulnerable, endangered or threatened category

as per IUCN. There is no endangered red list species found in the study area. Hence this small mining operation over short period of time will not have any significant impact on the surrounding flora and fauna.

3.11 LAND USE

3.11.1 Remote Sensing Satellite Data Used for the Study

For Land-use and land cover study, sensing satellite data of Geo EYE has been used as per Figure No. 1. A land use map showing 10 Km radial distance. The geographical coordinates of the project are Latitude :11°06'48.41"N to 11°06'52.70"N Longitude:78°50'48.24"E to 78°50'53.13"E.

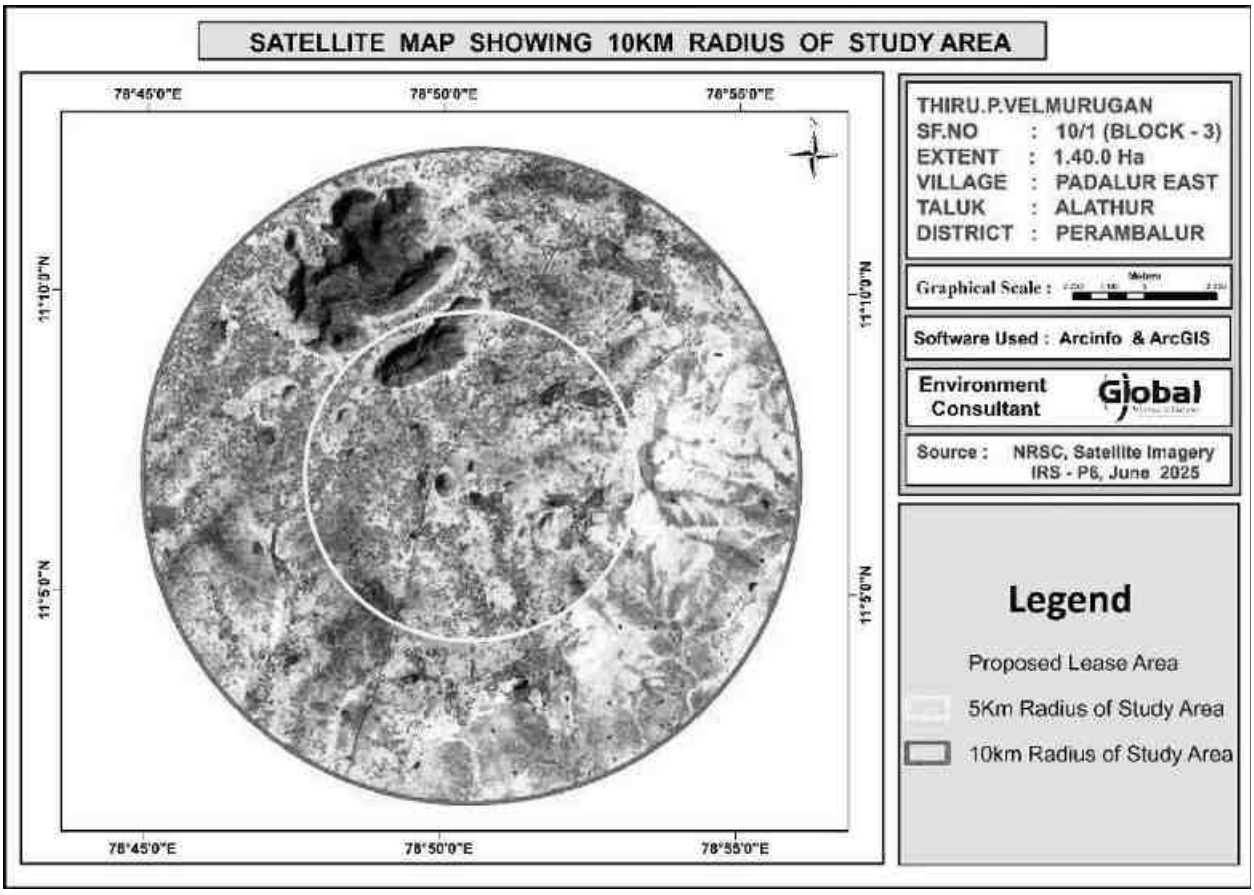


Figure No. 3.18 Remote Sensing Satellite Image

Selection of remote sensing satellite image (RSI) is on the availability of cloud free data and interpretability of predominant landuse and land cover (LULC) category. The examination of satellite data showed that the region is always covered by

clouds with lesser percentage during summer due to cluster habitation. But rained crops are cultivated during southwest monsoon and hence a data acquired during first onset of precipitation is preferred so as to delineate crop and fallow land parcels of agricultural category. Delineation of scrub land is also possible since land with scrub could be easily distinguished from crop vegetation and separated. This may be an arduous task during monsoon since the entire area would be witnessed with sudden sprout of lush natural vegetation, mostly *prosopis*, with first onset of precipitation.

3.11.2 Methodology Adopted for the Land Use Study

Present study involves micro level analysis of landuse pattern showing 10 km radius and changes in landuse pattern using satellite data. This necessitates a careful analysis of satellite data adopting a well-defined methodology.

To cater the requirement, a preliminary assessment of terrain using digital analysis helping to infer relationship between terrain and landuse has been carried out. Such an approach provides lucid understanding of landuse units and enhances the knowledge on the landuse pattern assisting in impact assessment.

The knowledge base thus generated is used to delineate various landuse units while carrying out interpretation of the satellite image. The derived landuse information is transformed into a GIS based spatial database using geo-referencing techniques. Besides, a limited but well focused field investigation also carried out and coordinates of significant landuse units using handheld GPS (Global Positioning System) are gathered to be used as control points for geo-referencing. Interpreted landuse units are verified in the field to carryout necessary corrections wherever is required before preparing final landuse map.

Using the image elements such as color, tone, texture, size, shape and associated elements various landuse units are delineated following the categorization and nomenclature adopted for the national level landuse classification system as recommended by National Remote Sensing Centre (NRSC), Department of Space, Government of India. Some of the landuse units that are identified in the study area are listed in Table No. 3.13 given below.

3.11.3 Field Verification

Field verification involved collection, verification and record of the different surface features that create specific spectral signatures / image expressions on FCC. In the study area, doubtful areas identified in course of interpretation of imagery is systematically listed and transferred on to the corresponding SOI topographical maps for ground verification. In addition to these, traverse routes were planned with reference to SOI topographical maps to verify interpreted LU/LC classes in such a manner that all the different classes are covered by at least 5 sampling areas, evenly distributed in the area. Ground truth details involving LU/LC classes and other ancillary information about crop growth stage, exposed soils, landform, nature and type of land degradation are recorded and the different land use classes are taken the Land use map.

Table No.3.13 Major Land use Units of the Study Area

Sr.No	1st level classification	2nd level classification
1	Built-Up Or Habitation	Residential
		Commercial / Industrial
2	Agriculture	Crop / Fallow Land
		Plantation
3	Water Bodies	Reservoir / Lake / Pond
		River
4	Vegetation Cover	Scrub
		Open Vegetation
		Close Vegetation
		Mangroves
5	Waste Land	Open Without Scrub
		Open With Scrub
6	Others	Mudflow
		Salt Pan
		Brick Manufacturing

3.11.4 Land Use Pattern of 10 km Radial Buffer Area of Project Site

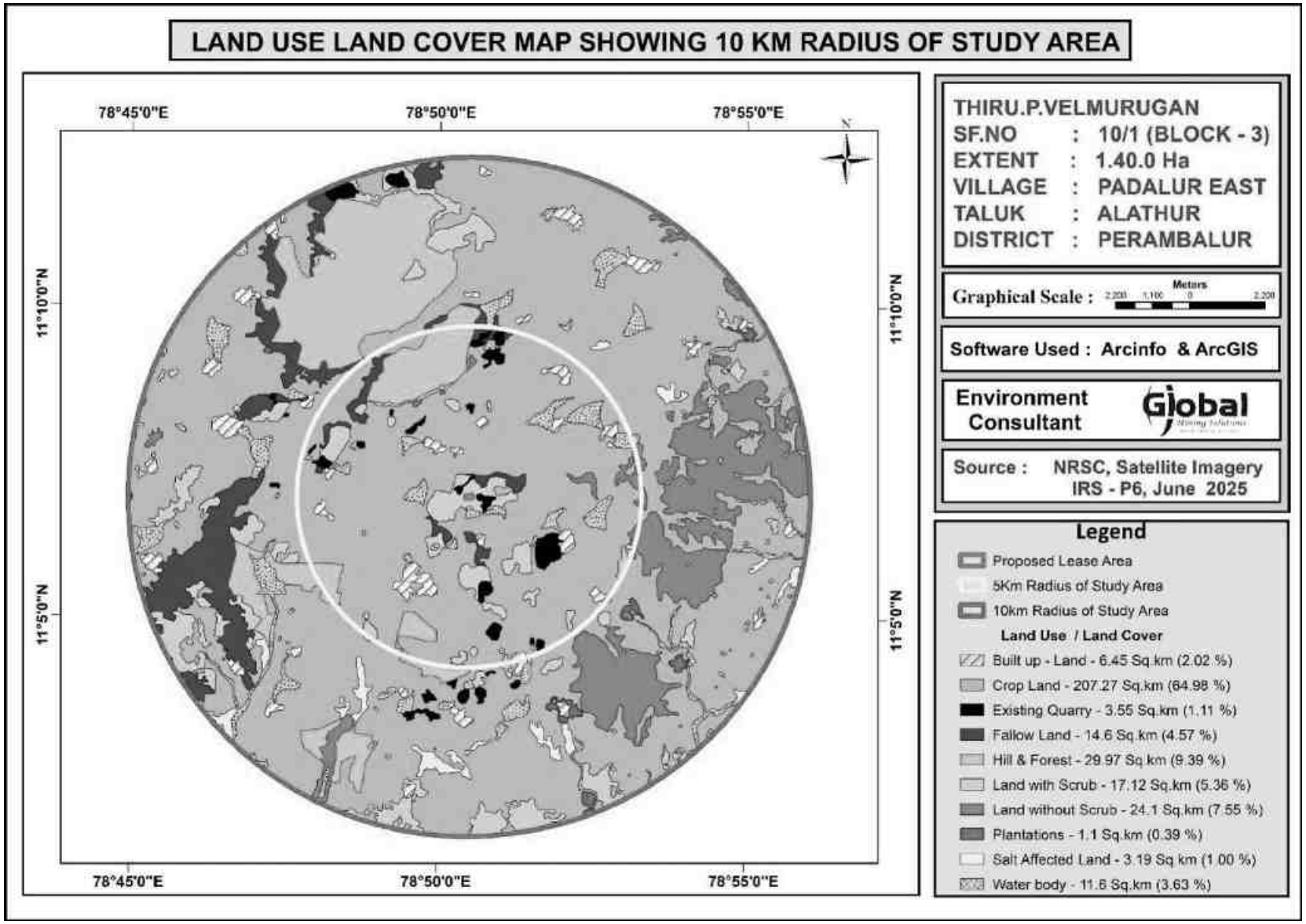
The existing land use pattern and land cover distribution of the whole acquired block, have been studied from the satellite imagery and subsequent ground checking during the field surveys.

It mainly comprises of agricultural land with bi-annual crops of Kharif (Kharif:

Jowar, Bajra, Cotton, etc. Season: July to October) and Rabi (Rabi: Wheat, Rai etc. Season: December to March). The presence of the agricultural land is followed by few dense settlements Padalur East village, natural or man-made pond etc. The shortage of rainfall, availability of ground water at deeper level and other climatic condition do not support good agricultural productivity inspite of having enough land. There is no demarcated forest land within the study area, however, some scattered forest is found throughout the 10 km radius, especially along the periphery of the villages.

The general landuse pattern of the core and buffer may be broadly classified into four major types – Buildup or habitation, Agriculture, Water Bodies, Waste land and Other categories. Under buildup or habitation category covered villages, town and infrastructure. Under agriculture category considered crop land/fallow land and plantation. Under the water body categories Reservoir/ lake, pond, River and stream. Under wasteland category considered landwith scrub and land without scrub is interpreted. Lastly other category's covered Mines area and forest are interpreted under this category. These categories are delineated from the selected satellite image using image elements such as color, tone, texture, size, shape and associated elements. The delineated landuse units are transformed into a spatial database in GIS environment. Estimated for area and representation of each category in the study area. The total area of LULC in the study area is calculated as 318.95 sq.km and spatial distribution of various LULC categories within buffer area are discussed below. The 5km and 10km radius landuse map is shown above. The details are given below.

FIG 3.19 LAND USE/LAND COVER MAP OF THE STUDY AREA



Land Use / Land Cover Classification classified into first level classification and second level classification and major land use/land cover classes were demarcated in the study area following Level II classification. A thematic map of 1:50,000 scale was generated incorporating these classified categories considering the area of the project.

Built-up / Settlements

Settlements in the study area are generally small to medium size in stature and area scattered. Padalur East is the relatively larger settlements observed at the north part of the study area.

Interpretation of settlement from the satellite image is based upon the image elements such as color, tone, texture and association. It is delineated by their typical red color. Association with linear features such as roads reaffirmed the presence of delineation of settlements. The spatial extent of settlement is estimated as 6.45 sq.km representing 2.02 % of the study area.

Agricultural Land

Under the broad category of agriculture crop land, fallow land and plantation is delineated. Cultivation is mostly dependent upon river water for irrigational activities are good. River, Ponds and tanks in each village act as rainwater storage units and do support domestic requirement and even cultivation to some extent. Because of these conditions, minimal water requiring crops such as corn, sunflower, oil seeds, grams, millets and coriander are cultivated. Cultivation is the most predominant crop cultivated and even if it failed their stalks are used as fodder for cattle.

Crop and Fallow land are interpreted using their image elements such as light to green, smooth to medium tone, they are the second most predominant landuse category delineated in the buffer area. As explained earlier, cultivation mostly depends upon river, canal and rainfall and majority of the land parcels are tilled and ready for cultivation with even a scanty Canal. Hence, cropland is the predominant category estimated at 207.27 Sq.km representing 64.98 % of the buffer area.

Wasteland

The last category of the landuse units in the study area is "Wasteland" which denotes land parcels that could not be utilized for cultivation even after conservation measures – such as land with scrub, land without scrub area.
Next to agricultural area, natural vegetation such as land with scrub forms the predominant LULC category of the buffer area. Land with scrub is sparse and delineated as patches scattered in all the parts of the buffer area. The spatial pattern of scrub suggests it is closely associated with water courses. This category occupies land with scrub an area of 17.12 sq.km representing 5.36 % of the total core and buffer area.

Land without scrub, on the other hand is interpreted using brown to white color, medium tone and medium texture and is generally restricted around land covered with scrub and fallow land. They occur as small patches and very minimal area covering 24.10 sq.km representing 7.55 % of the buffer area.

Water bodies

Many Streams small and big water bodies are seen in the study area distributed all over the study area. They support the domestic water requirements and for cattle. At some places, they may also use for irrigation purpose and are very limited. Few dry stream courses are also seen in the study area. In the satellite image, water bodies are interpreted by their light blue to greyish blue color, smooth tone and smooth texture.

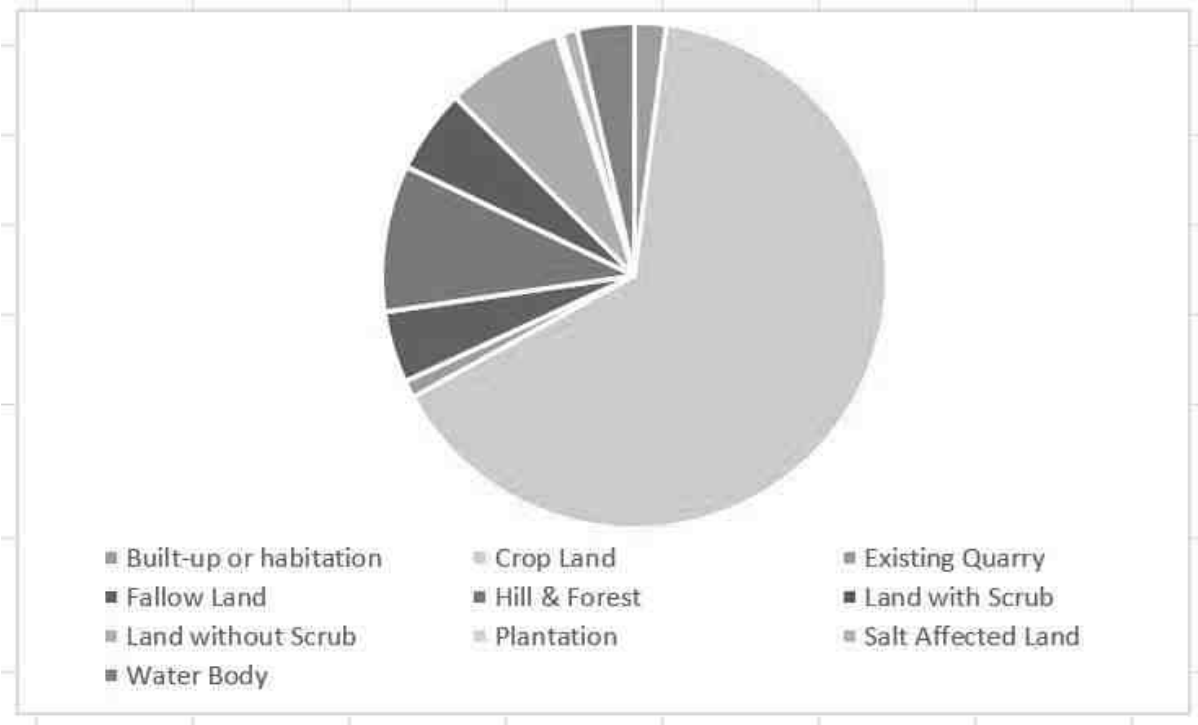
Most of the water bodies retain water for a shorter period after precipitation due to the soil constraint and hence go dry soon. Spatial extent of rivers, stream and water bodies is estimated at 11.6 sq.km and 3.63 %.

Mining area

Mining area seen in the study area distributed all over the study area. Major domestic income from mining business. Spatial extent of mining is estimated at 3.55 sq.km 1.11 % and forest cover is estimated 29.97 sw.km and 9.39%.

Table 3.14 Major Land Use Units of the Study Area in Percentage

S. No	1st Level Classification	Area in (sq.km)	Percentage (%)
1	Built-up or habitation	6.45	2.02
2	Crop Land	207.27	64.98
3	Existing Quarry	3.55	1.11
4	Fallow Land	14.6	4.57
5	Hill & Forest	29.97	9.39
6	Land with Scrub	17.12	5.36
7	Land without Scrub	24.1	7.55
8	Plantation	1.1	0.39
9	Salt Affected Land	3.19	1.00
10	Water Body	11.6	3.63
Total		**318.95**	**100.0**



3.12 SOCIOECONOMIC ENVIRONMENT

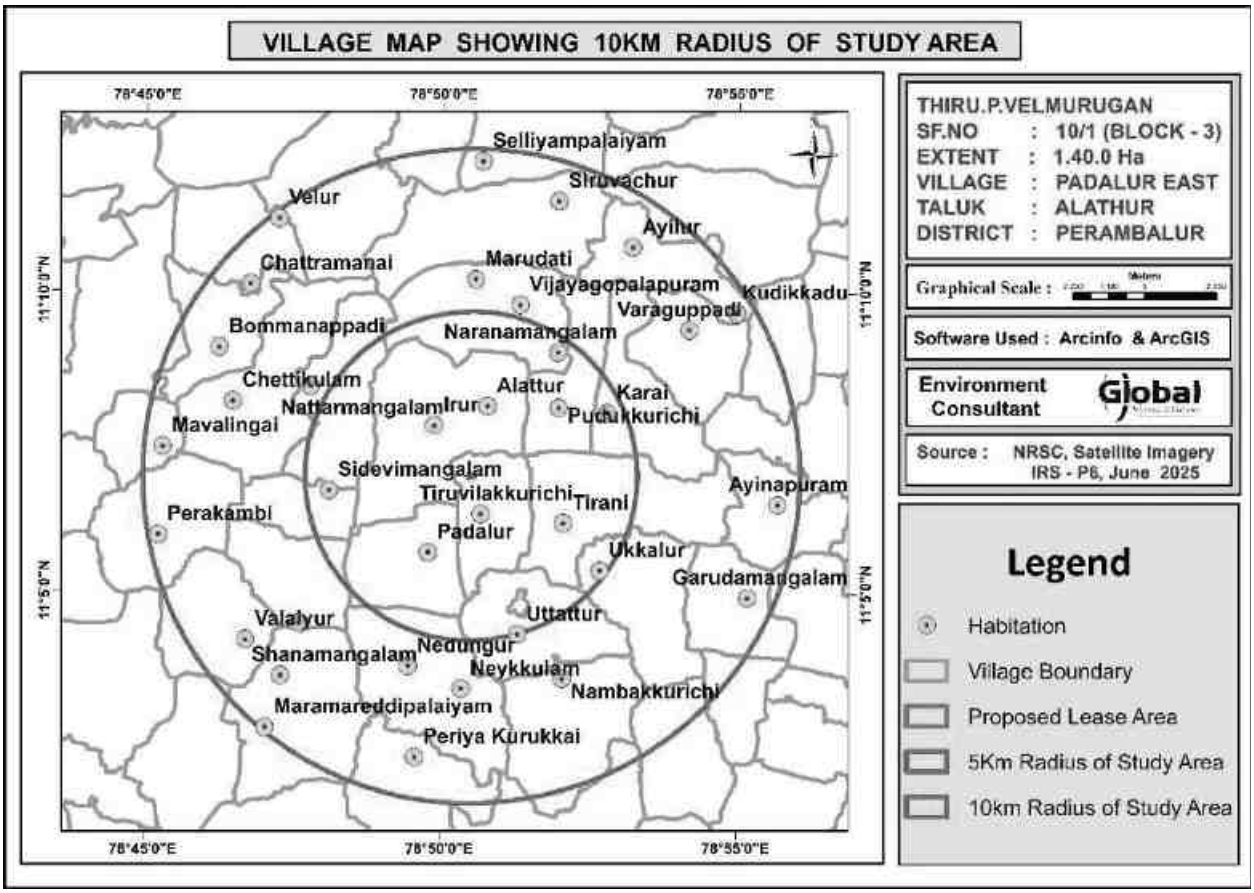
The socio-economic environment of the study area is studied by conducting primary sites through site visits and conducting sample surveys. The secondary data obtained from Census 2011 is also used. The following data area collected from secondary data:

- Demographic pattern.
- Health pattern
- Occupational structure.

3.12.1 DETAILS OF VILLAGES

The profile of the villages located in the study area is given in Fig 3.19 below.

FIG 3.20 VILLAGE MAP OF THE STUDY AREA



The project is located in Padalur (East) Village, Alathur Taluk, Perambalur District. The total population is 35,522 which comprise of 17,729 males and 17,793 females. There are 32 rural villages and one urban area in the study area. List of villages are given below.

Table 3.15 Village Details in study area

S.No.	Village/Town Name	Radius	Taluk Name	District Name
1	Tiruvilakkurichi	0-5 km	Alathur	Perambalur
2	Tirani			
3	Padalur			
4	Ammankovil Colony			
5	Uttatur			
6	Nedungur			
7	Ukkalur			
8	Pudukkurichi			
9	Karai			
10	Alattur			
11	Nattarmangalamlrur			
12	Kuttanur			
13	Sidevimangalam			
14	Siruvachur	5-10 km		
15	Ayilur			
16	Varaguppadi			
17	Kudikkadu			
18	Ayinapuram			
19	Garudamangalam			
20	Nambakkurichi			
21	Sirukalappur			
22	Periya Kurukkai			
23	Neykkulam			
24	Shanamangalam			
25	Valaiyur			
26	Perakambi			
27	Nedungur			
28	Mavalingai			
29	Chettikulam			
30	Boommanappadi			
31	Chattramanai			
32	Marudati			

Table 3.16 Population profile of the study area		
Particulars	**No of Population**	**Percentage (%)**
A. Population break-up by Gender		
Male Population	282157	49.92
Female Population	283066	50.08
Total	565223	100
B. Population break-up by Caste		
Scheduled Caste	175289	31.01
Scheduled Tribes	2584	0.46
Others	387350	68.53
Total	565223	100
C. Literacy Level		
Total Literate Population	375823	66.50
Others	189400	33.50
Total	565223	100
D. Occupational structure		
Main workers	155097	27.44
Marginal workers	44629	7.89
Total Workers	199726	35.33
Total Non-workers	165771	29.34
Total	565223	**100**

Table 3.17 Population profile - Padalur Village		
Particulars	**No of Population**	**Percentage (%)**
A. Population break-up by Gender		
Male Population	871	52.28
Female Population	795	47.72
Total	**1,666**	**100**
B. Population break-up by Caste		

Scheduled Caste	193	11.58
Scheduled Tribes	0	0
Others	1,473	88.42
Total	**1,666**	**100**
C. Literacy Level		
Total Literate Population	1,057	63.44
Others	609	36.56
Total	**1,666**	**100**
D. Occupational structure		
Main workers	503	30.19
Marginal workers	54	3.24
Total Workers	830	49.82
Total Non-workers	279	16.75
Total	**1,666**	**100**

3.12.2 INFRASTRUCTURE FACILITIES IN THE STUDY AREA

Education

Table 3.18 Educational infrastructure -10 km radius from proposed mine lease

S. No.	Particulars	Available in village (Nos)
1	Govt. Primary School	22
2	Govt. Middle School	12
3	Govt. Secondary School	20
4	Govt. Senior Secondary School	36
5	Govt. Arts and Science Degree College	42
6	Govt. Engineering College	0
7	Govt. Medicine College	0
8	Govt. Management Institute	0
9	Govt. Polytechnic	0
10	Govt. Vocational Training School/ITI	0

In the study area, there are totally 22 Primary Schools functioning in these 24 urban areas. Among them 32 villages have 22 primary school, 12 Middle schools & 20 Secondary school.

Healthcare

In the study area, the following facilities are available.

Table 3.19 Medical Infrastructure-10 km radius from proposed mine lease		
S.No.	**Particulars**	**Available in village (Nos)**
1	Community Health Centre	9
2	Primary Health Centre	8
3	Primary Health Sub Centre	13
4	Maternity and Child Welfare Centre	8
5	TB Clinic	5
6	Hospital Allopathic	0

Other Infrastructure

The other infrastructure facilities available are given below.

Table 3.20 Other Infrastructure-10 km radius from proposed mine lease		
S.No.	**Particulars**	**Available in village**
1	Tap Water-Treated	24
2	Covered Well	27
3	Hand Pump	27
4	Tube Wells/Borehole	23
5	Post office	39
6	Public bus services	22
7	Commercial Bank	38
8	Cooperative bank	36

Sample Survey

The expert visited 6 villages in the study area namely Padalur, Tiruvilakkurichi, Sidevimangalam, Karai, Nattarmangalamlru, and Uttattur Villages. Discussions were held with the people from nearby locality to study the social and economic

conditions prevailing in the area. The expert also visited nearby hospitals and primary health centres. The following observations were made.

Primary schools are available in many villages. For hospital facilities, people in the locality have to go to hospital in Padalur which is about 2.4 km (SW) from the lease area. Major schools with higher secondary and senior secondary schools are located in Padalur. The major Padalur Union located in the area is Perambalur. Facilities like petrol pump stations, ATM facility are available in Padalur.

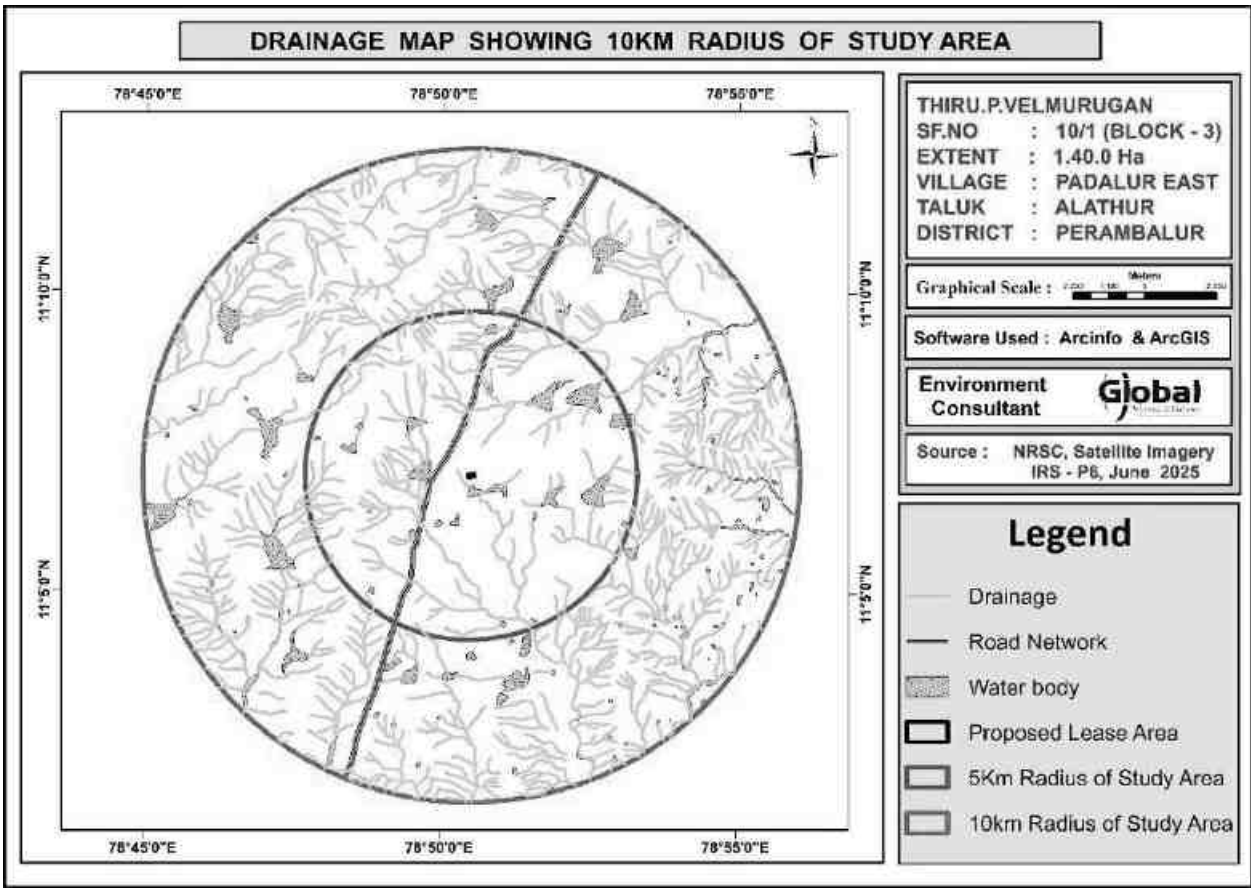
3.13 HYDROGEOLOGY OF THE STUDY AREA

The hydrological and hydrogeological pattern of the study area is studied in detail using satellite imagery.

3.13.1 HYDROGEOLOGICAL STUDY

To assess the hydrogeological condition of the surrounding proposed mine lease area. The study area is located in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State is considered to understand the nature of the general hydrogeological conditions of the surrounding proposed mine lease area.

FIGURE 3.21 10 KILOMETER RADIUS OF THE DRAINAGE MAP



3.13.2 PHYSIOGRAPHY AND DRAINAGE

Physiography: The area applied for quarry lease is exhibits hilly terrain covered by top soil formation. The massive Charnockite formation is noticed below 1m (Avg) Topsoil and sloping towards southeast side of the area, the altitude of the area is above 185m (maximum) from MSL.

Drainage: The drainage pattern study reveals that from the proposed mine lease area with around 1 Km radius and 10 Km study observed in Figure 3.20. the major water bodies in buffer zone are Tank –260km (S), Tank – 620m (SE), Maruthadi Eri-1.35Km (SW), Therani Big Lake-4.16Km(SE), Nanthai River – 4.3 km (S).

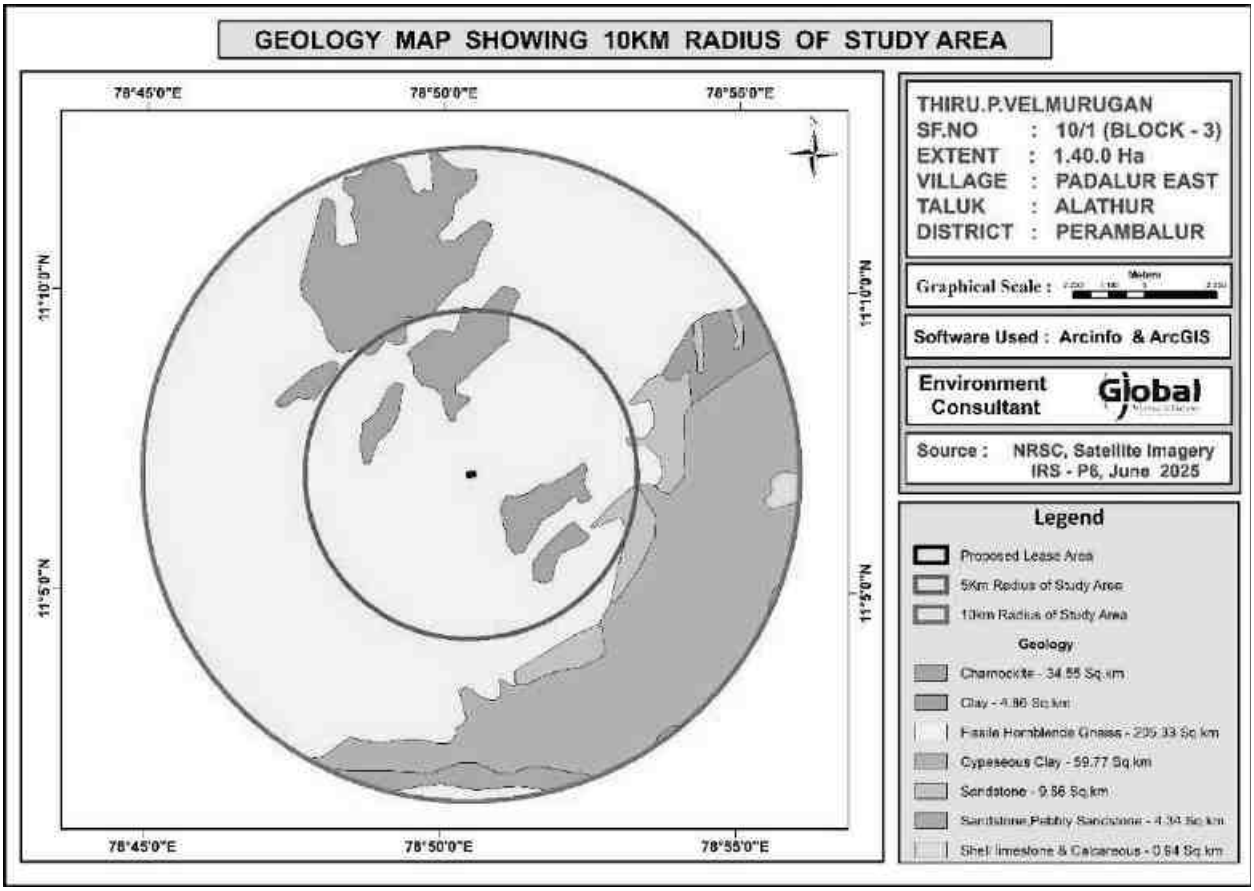
3.13.3 GEOLOGY, GEOMORPHOLOGY AND SOIL

Geology: Geologically in Perambalur district, western part is covered by hard rocks, south east by cretaceous formation, thin fringe of Gondwana in south and north Alluvium. The western part of the district is covered by Granitic gneiss, Hornblends gneiss, harnockite with intrusions of Dolerite – dykes and pegmatites. These rocks are highly metamorphosed and have been subjected to very severed folding, crushing and faulting.

Nearly 75% of the area in this district is covered by sedimentary formations like the ancient upper thin fringe of Gondwana (underlined by hard rock), cretaceous, Tertiary and Recent alluvial deposits. The Upper Gondwana occurs as a thin fringe composing of clay sandstone underlain by the hard rock.

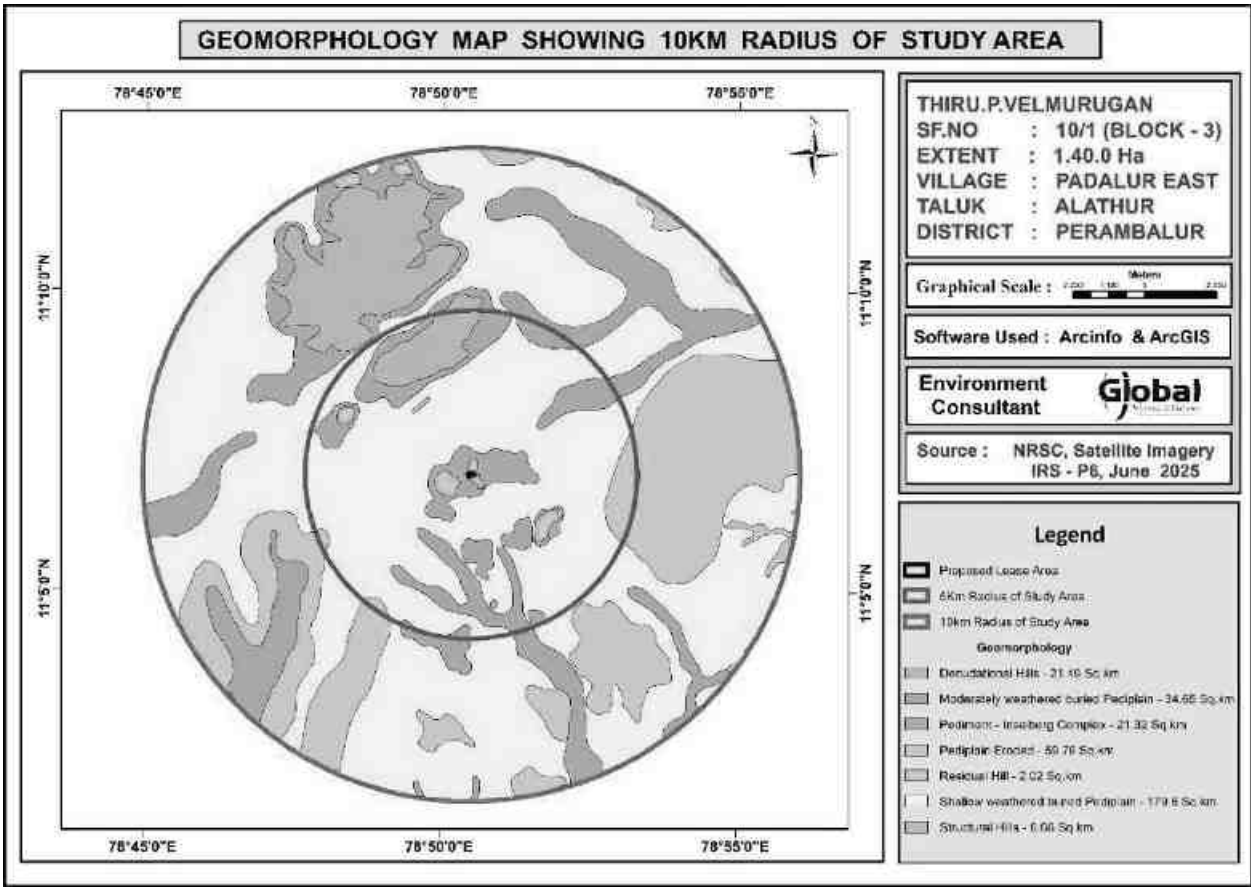
The cretaceous formation deposited under marine conditions. The sequence of cretaceous beds commences with Uttatur stage, Ariyalur stages and closed with Ninniyur stage. These beds consists of shales, clay, limetone, argillaceous limestone, coral limestones and shell limestones. The Tertiary Miocene and Pliocene age formation is underlain by Cuddalore sand stoned. The formation consists of sand stones, gravelly sand, clays, lignite seam and pebble beds, marine regressions are indicated by intercalation of lignite beds. The cretaceous formations stretch along the river coursed of Coleroon, Marudaiyar and Vellar. They are mainly composed of Alluvial deposits which are medium to coarse grained sediments and finer flood plain deposits. The Quaternary alluvium is underlain by the Archaen and also the Cretaceous formation in Kunnam Taluk. The type of rock formation in the core and buffer zone is composed of Calc Granulite & Limestone, Sandstone & Pebbly Sandstone, Sandstone & Shales and Gypseous Clays & Limestone. The lease area falls under Fissile Hornblende Gneiss category. Geology map for the 10 Km radius from the proposed project site is given as Figure 2.6.

FIGURE 3.22 10 KILOMETER RADIUS OF THE GEOLOGY MAP



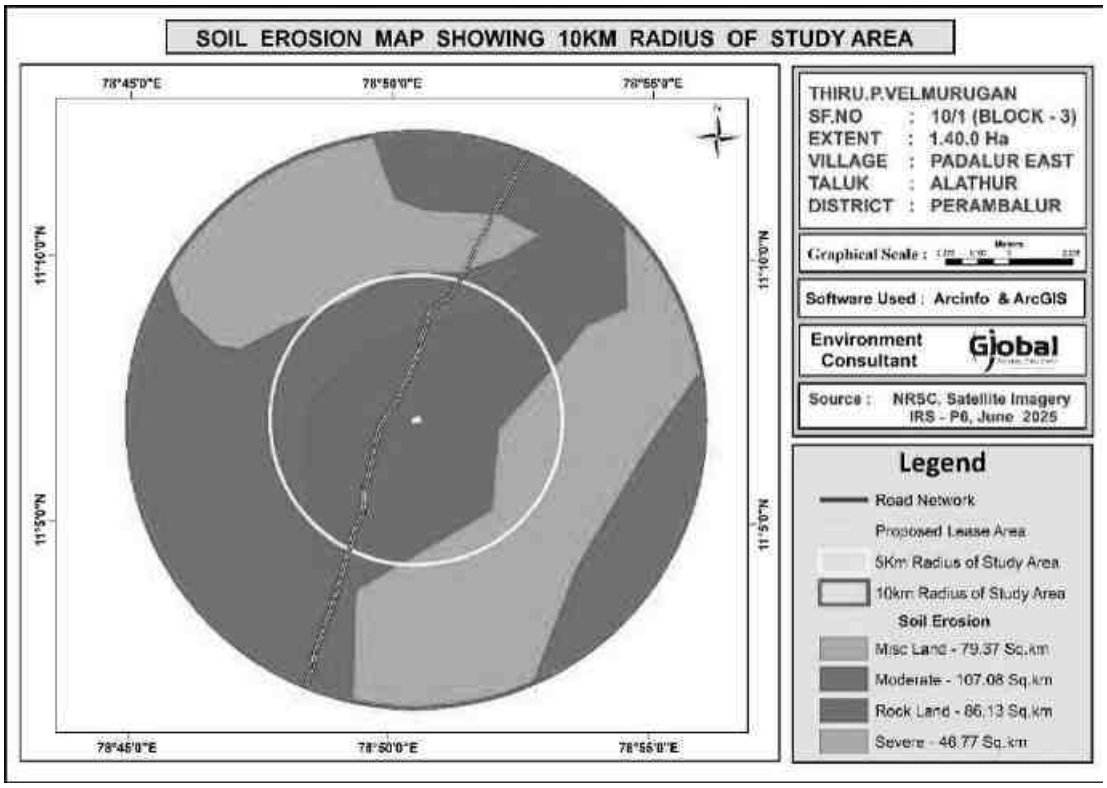
Geomorphology: The Core and 10 Km buffered zone geomorphological features (Figure 3.24) shows that the district is pediment pediplain complex, western, southern and eastern part of the district are covered by moderately dissected denudational hills & valley. The area is falls under moderately dissected structural hills & valley. The water bodies are through the district. The most of the lineament are trending in NNE-SSW direction, while geomorphic lineaments are trending in E-W direction. The study area falls Moderately denudational hills and valleys, Pediment pediplain complex, Moderately dissected structural hills and valleys, low dissected structural hill and valleys. Predominantly the buffer zone is dominated by Shallow Weathered buried Pediplain, and the lease area falls under Pediment - Inselberg Complex. Geomorphology of the study area is detailed below figure.

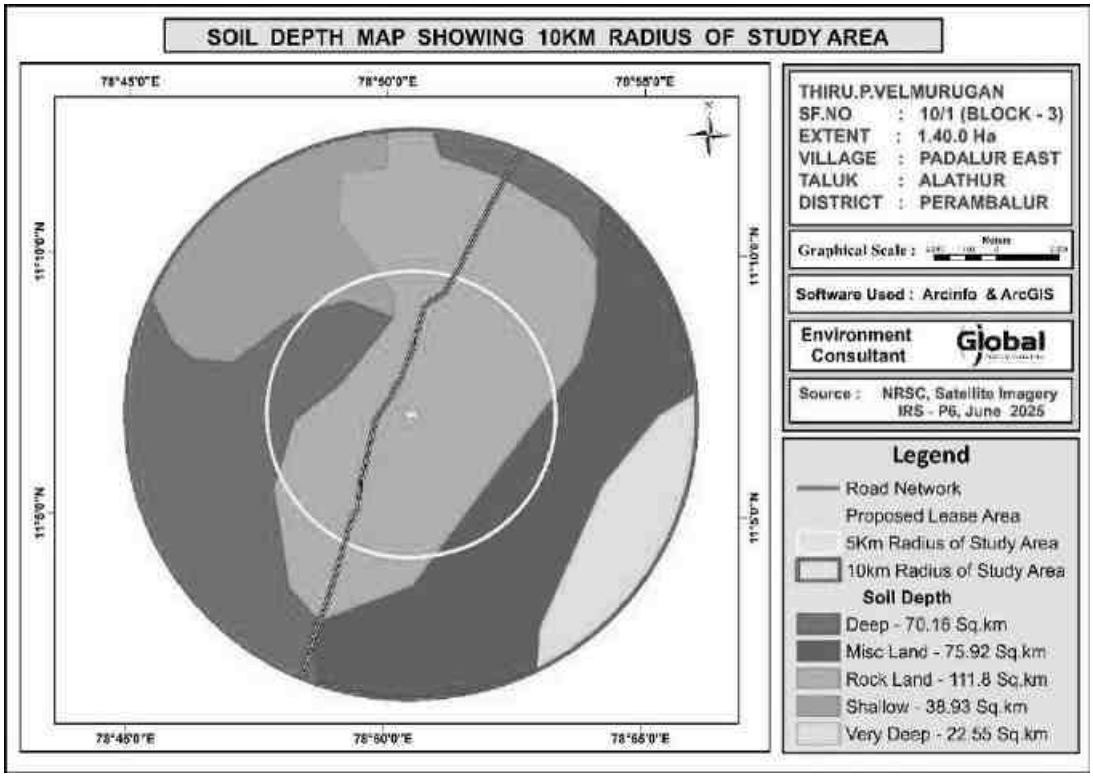
FIGURE 3.23 10 KM RADIUS OF THE STUDY AREA GEOMORPHOLOGY MAP

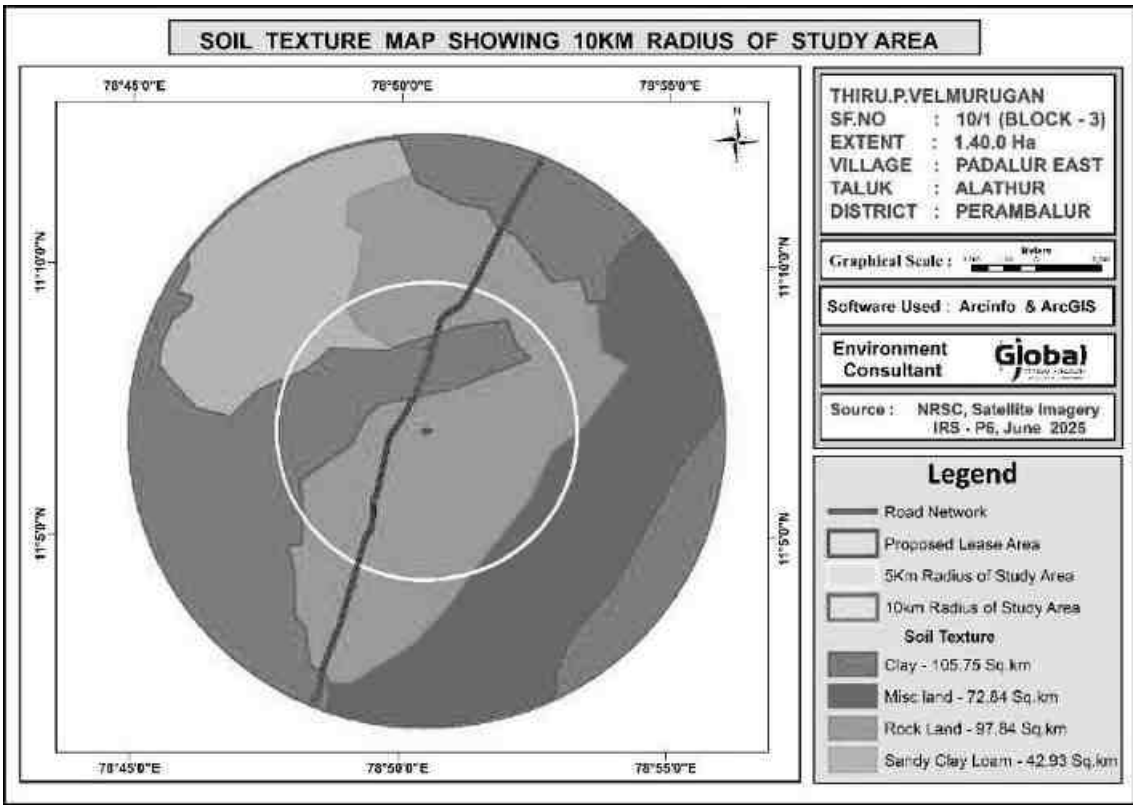


Soil: The soil developed in and around is moderately deep excessively drained, gravelly clay soil on hills, whereas, on NW part of the district, shallow, well drained, gravely clay soil on gently sloping lands. The soil developed deep drained, calcareous clayey soil on gently sloping low lands. The soil develops on isolated patch at SE of Oduattur is moderately deep, excessively drained, gravelly loam soil high hills.

FIGURE 3.24 10 KM RADIUS OF THE STUDY AREA SOIL TYPE MAP







3.13.4 FIELD INVESTIGATION

In this representation in the two seasons, the water level substantially gets fall-down in the non-monsoon season, because of the rainfall impact and it extended up to the Monsoon season. Some of the wells water level is shallow depth in both seasons. These dug wells are located nearby water bodies. So, clearly shows that surface water is impact in these wells.

The shallow depth of groundwater level in the monsoon season. It is interesting to note that the water level is increased because of heavy rainfall during the southwest and northeast monsoon. The groundwater table level is substantially increased in the monsoon season.

In the study area, the shallow aquifer is developed through dug wells and deeper aquifer through tube wells. The study has revealed that potential fractures are encountered at deeper levels. The water in the wells are available mainly monsoon

and it reduces during non-monsoon demanding the groundwater. Bore wells are deep and it reflects that the yield is only better at deeper water levels.

Rain water collected in the tanks in the region acts as a good source of water during monsoon season. In order to increase the recharge, tanks, and percolation ponds may be provided with the recharge wells/recharge shafts penetrating this impervious layer to make it more effective in recharging the aquifer.

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CHAPTER 4

ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

4.1 INTRODUCTION

This chapter deals with the various anticipated environmental impacts and mitigation measures of the proposed mining activity. The proposed method of mining is Opencast Mechanized and the quarry operation involves Shallow Jack Hammer Drilling, Blasting, Excavation, Formation of benches, Loading and Transportation of minerals. The above activities may affect the surrounding environment like removal of rock mass, Loss of flora and fauna of the area, surface water discharge, change in air and water quality, etc., If adequate measures are not taken for the proposed operations, it will cause the environmental degradation of the area and it will lead to affect to the ecosystem of the surrounding environment.

In order to maintain the existing environmental scenario of the proposed mine lease area it is mandatorily required to assess the present ecology and environment of the proposed mine lease area and buffer area of the project before starting mining operations. The various environmental impacts which are identified by the proposed quarrying activities have been discussed below and its subsequent paragraphs.

- Land Environment
- Soil Environment
- Water Environment
- Air Environment
- Noise Environment
- Biological Environment
- Socio Economic Environment

4.2 DETAILS OF INVESTIGATED ENVIRONMENTAL IMPACTS DUE TO PROJECT LOCATION POSSIBLE ACCIDENTS, PROJECT DESIGN, PROJECT CONSTRUCTION, REGULAR OPERATIONS FINAL DECOMMISSIONING OR REHABILITATION OF A COMPLETE PROJECT.

This is a proposed Rough Stone Quarry of S.F.No.10/1 (Block-3) over an extent of 1.40.00 Ha in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State. The method of mining is Opencast mechanized with a bench width and height of 5m. It is proposed to excavate to 10,19,837.50 Ts/ 3,70,850 m^3 of Rough Stone for the period of 5 years upto a depth of 81m (61m above ground level and 20m below ground level) for the period of five years. There is no stream/odai within the mine lease area.

The main anticipated impact on the Land Environment due to quarrying operation is change in Landscape, change in Land – use Pattern.

The entire mine lease area is Government Poramboke Land. The project area of 1.40.00 Ha boundary barrier except in eastern direction. It is proposed to be altered by effective quarrying operation such as excavation (0.95.0 Ha), Infrastructure (0.01.0), Road (0.01.0 Ha) and green belt will be developed in the safety zone of 0.43.0 Ha. The ultimate depth of quarrying is proposed with maximum depth of 81m (61m above ground level and 20m below ground level) and will not intersect the ground water table.

4.3 MEASURES FOR MINIMIZING AND /OR OFFSETTING ADVERSE IMPACTS IDENTIFIED

<table>
<tr><th>Aspect</th><th>Impact</th><th>Mitigation measures</th></tr>
<tr><td>Topography</td><td>The area is hilly topography covered by rough stone and top soil. Quarrying activity will lead to change in geological setting of the area i.e., Due to the quarrying activity in the mine lease area will leads to affect the aesthetic view on the environment. Further, due to the movement of heavy vehicles in and around the mine lease area will leads to affect the surrounding agricultural lands, ecology and biodiversity, human habitations due to the emissions from vehicles like SO_2, NO_x, PM_{10}, $PM_{2.5}$, etc., The existing land use pattern is given as under.
<table>
<tr><th>Land Use</th><th>Present Area (Hect)</th><th>Area in use during the quarrying period (Hect)</th></tr>
<tr><td>Quarrying Pit</td><td>0.04.2</td><td>0.95.0</td></tr>
<tr><td>Infrastructure</td><td>Nil</td><td>0.01.0</td></tr>
<tr><td>Roads</td><td>Nil</td><td>0.01.0</td></tr>
<tr><td>Green Belt</td><td>Nil</td><td>0.43.0</td></tr>
<tr><td>Unutilized</td><td>1.35.8</td><td>Nil</td></tr>
<tr><td>Total</td><td>1.40.0</td><td>1.40.0</td></tr>
</table>
The ultimate pit dimension of the mine lease area is given below.</td><td>The major impact due to this project on land environment is the change in land use. Mining activity will be carried out upto a depth of 81 m (61m above ground level and 20m below ground level). At the end of mining period, the quarried pit will act as a water reservoir to store the rain water.
Land Use at the end of mine will be as follows.
<table>
<tr><th>Land Use</th><th>Area in use during the quarrying period (Hect)</th></tr>
<tr><td>Area left for water body</td><td>0.95.00</td></tr>
<tr><td>Green Belt</td><td>0.43.00</td></tr>
<tr><td>Remaining area</td><td>0.02.00</td></tr>
<tr><td>Total</td><td>1.40.0</td></tr>
</table>
At the mine closure stage 0.95.00 Ha of lease area will be left as rain water harvesting pond 0.43.00 Ha will be developed with green belt.

Greenbelt shall be developed around the mine lease area and the details has been given below.
<table>
<tr><th>Year</th><th>Species</th><th>No. of trees</th><th>Spacing</th><th>Survival</th></tr>
<tr><td>I</td><td rowspan="4">Pungai, Vagai, Vembu, Manjal</td><td>430</td><td rowspan="4">3m x 3m</td><td rowspan="4">85%</td></tr>
<tr><td>II</td><td>-</td></tr>
<tr><td>III</td><td>-</td></tr>
<tr><td>IV</td><td>-</td></tr>
</table></td></tr>
</table>

<table>
<tr>
<td></td>
<td>
<table>
<tr><th colspan="4">Ultimate Pit dimension at the end of Mining plan Period</th></tr>
<tr><th>Pit No.</th><th>Length (max) (m)</th><th>Width (Avg) (m)</th><th>Depth (max) (m)</th></tr>
<tr><td>I</td><td>190</td><td>50</td><td>81m (61m above ground level and 20m below ground level)</td></tr>
</table>

If mining is not done systematically it will leads to the dumping failure in the mining area.
</td>
<td>
<table>
<tr><td>V</td><td>konrai, Naval, Puvarasu, etc</td><td>-</td><td></td><td></td></tr>
<tr><td colspan="2">Total</td><td>430</td><td></td><td></td></tr>
</table>

Due to the thick vegetation around the mine lease area and sprinkling of water around the haul roads the dust emissions arise from the vehicles will be controlled.
At the end of mining period, fencing will be provided around the mine lease area to arrest the entry of public/cattle to the mining area.
The rough stone are proposed to quarry 5m bench height and 5m width with 45^0 slope and with conventional opencast Mechanized method. As per the approved mining plan a safety distance of 10m shall be provided. There is no overburden anticipated during the entire Rough Stone quarrying operation. The excavated rough stone will be directly loaded into tipper to the needy crusher/other buyers.
</td>
</tr>
<tr>
<td>Drainage</td>
<td>Mine drainage is surface water or groundwater that drains from an active or abandoned mine. One of the adverse impact of mine drainage is it will contaminate the ground water.</td>
<td>As per the approved mining plan the ultimate pit limit is 81 m (61m above ground level and 20m below ground level). The ground water table is reported as 67 m. Hence the quarrying operation may not affect the ground water.</td>
</tr>
<tr>
<td>Soil Quality and Agriculture</td>
<td>In monsoon seasons due to the excavation of minerals soil erosion and sediment deposition will occur in the nearby water bodies.</td>
<td>It is proposed to quarry upto a depth of 81 m (61m above ground level and 20m below ground level) and the nearby water table is 67 m. So, the mining activity will not affect the ground water. To prevent the soil erosion during monsoon season, garland drain will be constructed with silt traps.</td>
</tr>
</table>

Visual impact on surrounding environment	Quarrying activities and rock extraction generally cause several environmental effects on the surrounding areas. The alteration of landscape due to activities like excavation, drilling or blasting, in particular, often generates a visual impact on the receptors set in the surroundings. Among these effects, the shape, extent, or chromatic contrast of the mining surface with the original land form may represent a huge loss of appeal for the growth of new urban settlements.	The reclamation of the post mined quarry surface is aimed at restoring the ecological balance taking into account geological parameters but also local flora and climate. Further the ultimate depth of mining is 81 m (61m above ground level and 20m below ground level). In the post mining stage, the quarried-out pit will be used for rainwater harvesting.

4.3.1 SOLID WASTE GENERATION AND MANAGEMENT

The plastic waste generation is very negligible and it will be collected from the source level in specific dustbin and disposed through the municipal bins.

- Identification of solid waste generations
- Providing dustbins to collect with different color coding
- Creating awareness among the employees
- Developing common storage yards
- Disposal to the nearby municipal yards
- Record keeping
- Review once in quarter

4.3.2 WATER ENVIRONMENT

4.3.2.1 Impact on Surface Water Resources

There is no seasonal or perennial Odai within the M.L area. The drainage pattern of the region is plane to sub-dendritic. Surface run-off water of the M.L. area is drained through proposed drainage and collected in the bottom of the quarry and collected water will be used for same quarry operation as such for plantation & dust suppression.

The following water bodies are located within 10 km radius of the project site.

Tank –260km (S)

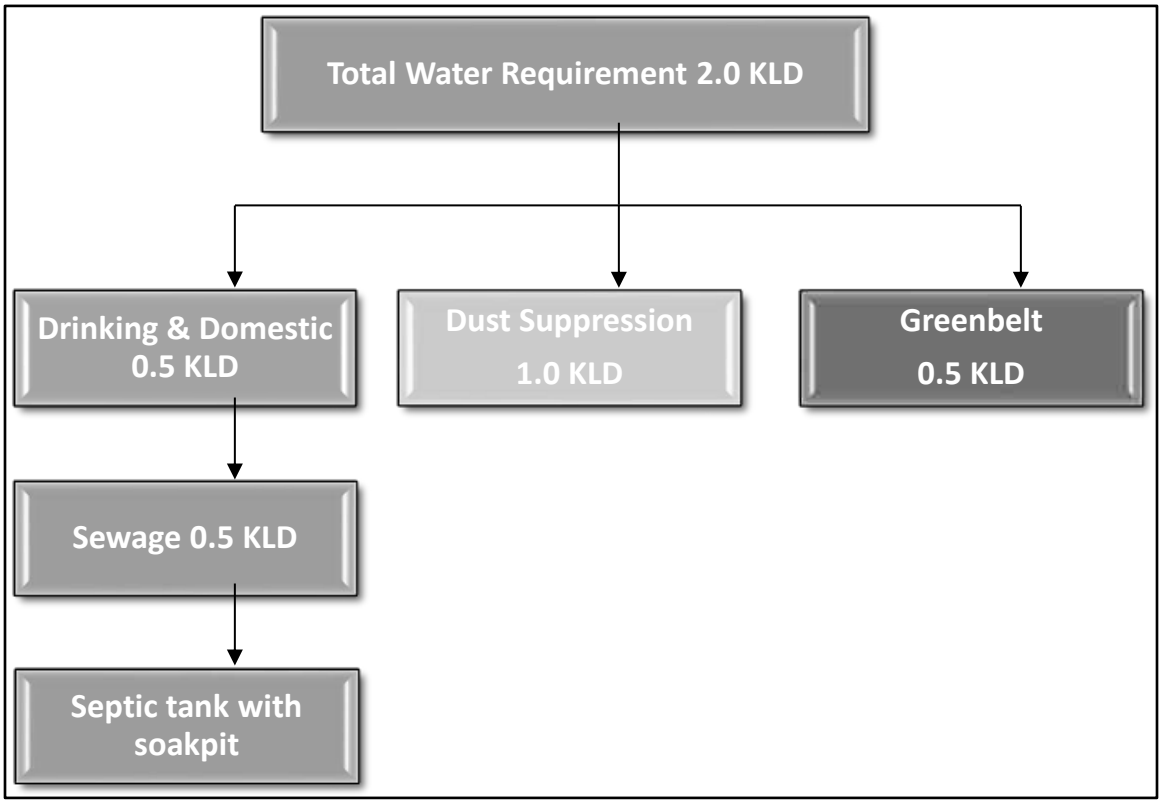
Tank – 620m (SE), Maruthadi Eri-1.35Km (SW), Therani Big Lake-4.16Km(SE), Nanthai River – 4.3 km (S)

Since these water bodies are located outside the lease area and there is no discharge of effluent or any untreated water from the mines will be made into these water bodies, there is no major impact. The project proponent will restrict the mining operation only within the lease and no other work will be carried out near the canal or any area outside the mining lease.

4.3.2.2 Impact due to Water use in Mines

In the proposed mines water will be mainly used for domestic purpose, dust suppression & plantation. Total water requirement for the project is 2.0 KLD which will be sourced from outside agencies. Negligible sewage of 0.5 KLD will be generated, for which a septic tank with soak pit will be set up. The water balance diagram is given below.

FIG 4.1 WATER BALANCE DIAGRAM



4.3.2.3 Impact on Ground Water

The mining activity is not likely to intersect ground water as the ground water table occurs at a depth of 67 m. The mining will go up to the maximum depth of 81 m (61m above ground level and 20m below ground level). So, there will be no chance of intersecting the ground water table by the mining activity. So, the impact of mining on the ground water is not envisaged.

4.3.2.4 Mitigation measures

- Entire lease area will be provided with proper garland drains.
- Check wears will be provided to prevent solids from wash off.
- Construction of garland drains around freshly excavated so that flow of water with loose material is prevented.
- The mine water will be passed through the natural slopes and valleys and gets accumulated in the settling tank (Bottom pit)

4.3.2.5 Ground water environment in buffer zone

The scenario of ground water in Perambalur District, Pernampattu Taluk is given below.

TABLE 4.1 Ground Water Level Status in Perambalur District

S. No.	Assessment Unit (Firka)	Net Annual Ground water availability	Existing gross ground water consumption for irrigation	Existing gross ground water consumption for domestic and industrial water supply	Existing gross ground water consumption for all uses	Stage of ground water development	Category
1	Alathur	410.51	OE	39.85	4.93	9.86	Over Exploited

Source: nwm.gov.in

It is planned to carryout appropriate rainwater harvesting schemes and artificial recharge schemes in the area.

4.4 VEGETATION IN THE CORE ZONE

The mine lease area is devoid of major plantation. Shrubs and bushes are majorly found within the lease area. The proponent has planned to develop green belt in an area of 0.43.0 Ha. Trees like Pongamia pinnata, Syzigium cumini, Albizia lebbeck, Thespesia populnea, Bauhinia racemose, Cassia siamea, Azadirachta indiaca will be planted around the mine lease area. A total of 430 trees are planned to be planted. Spacing will be 3m x 3m.

FAUNA

There are no sanctuaries/national parks in the buffer zone of 10km study area. The commonly found fauna in the buffer zone are given in Chapter III. During mining activity the impacts and mitigation measures for Fauna are given in below table.

Table 4.2 Impacts and mitigation measures for Fauna

S.No.	Impact	Mitigation measure
1	Fauna is affected due to noise and vibration.	Sirens will be blown before blasting in the mines. To reduce noise levels, plantation will be done. Blasting will be carried out only in the allotted time.
2	Dust generation due to mining activities	To reduce dust generation, mist sprayers will be used. During transportation, the material will be covered with tarpaulin. Water sprinkling will be done to reduce generation of pollutants.
3	Change in land use of the lease area	After the mine closure stage, the mine pit will be left as rain water collecting tank, which can attract bird population in the nearby areas.
4	Accidental falling of animals	To prevent entry of animals, the mine lease surrounding area will be properly fenced with barbed wire.

4.5 IRREVERSIBLE AND IRRETRIEVABLE COMMITMENTS OF ENVIRONMENTAL COMPONENTS.

4.5.1 IMPACT DUE TO MINING OPERATION

Impact prediction is a very important phenomenon in evaluating the environmentally potential adverse impacts for any proposed mine project. The impact prediction is always carried out under worst possible conditions so as to mitigate or to eliminate the environmental hazards. These predictions thus calculated are superimposed over the baseline data to calculate the net impact on the environment after the proposed mine Project comes into production.

4.5.2 IMPACT ON AIR ENVIRONMENT

The impacts on air environment from a mining activity depend on various factors like production capacity, machinery involved, operations and maintenance of various equipments and vehicle. Apart from these, there will be other activities associated viz transportation of mineral and waste, stocking facilities and dump management within the mine lease area that may contribute to pollution.

4.5.4 Quantitative Estimation of Impacts on Air Environment

An attempt has been made to predict the incremental rise of various ground level concentrations above the baseline status in respect of air pollution due to maximum production of all existing and proposed Quarries (nine quarries + one existing quarry) were calculated.

The pollutants released into the atmosphere will disperse in the down wind direction and finally reach the ground at farther distance from the source. The concentration of ground level concentrations mainly depends upon the strength of the emission source and micrometeorology of the study area.

In order to estimate the ground level concentrations due to the emission from the proposed project, EPA approved Industrial Source Complex ISC AERMOD View Model has been employed.

The mathematical model used for predictions on air quality impact in the present study is ISC-AERMOD View-6.8.6. It is the next generation air dispersion model, which incorporates planetary boundary layer concepts.

The AERMOD Cloud is actually a modeling system with three separate components:

AERMOD (AERMIC Dispersion Model), AERMAP (AERMOD Terrain Preprocessor) and AERMET (AERMOD Meteorological Preprocessor).

Special features of AERMOD include its ability to treat the vertical in homogeneity of the planetary boundary layer special treatment of surface releases, irregularly shaped area sources, a plume model for the convective boundary layer, limitation of

vertical mixing in the stable boundary layer, and fixing the reflecting surface at the stack base.

The AERMET is the meteorological preprocessor for the AERMOD. Input data can come from hourly cloud cover observations, surface meteorological observations and twice-a-day upper air soundings. Output includes surface meteorological observations and parameters and vertical profiles of several atmospheric parameters.

The AERMAP is a terrain preprocessor designed to simplify and standardize the input of terrain data for the AERMOD. Input data include receptor terrain elevation data. Output includes, for each receptor, location and height scale, which are elevations used for the computation of airflow around hills.

Salient features of the AERMOD model are given hereunder.

- Excavation operations are considered as area sources.
- Transportation of material on haulage roads has been considered as line source

The predicted ground level concentrations for study period computed using AERMOD model are plotted as isopleths.

4.5.5 Sources of Dust Emission

The proposed mining is carried out by semi mechanized opencast method. The air borne particulate matter generated by ore handling operations, transportation and screening of ore is the main air pollutant. The emissions of sulphur dioxide (SO_2), Oxides of Nitrogen (NOx) contributed by diesel operated excavation/loading equipment and vehicles plying on haul roads are marginal. Prediction of impacts on air environment has been carried out taking into consideration proposed production and net increase in emissions. Based on the various operations involved in the production of minerals, the various emission sources has been identified as given below.

a. Area sources.
b. Line sources.

Extraction of mineral from mine, are considered as area sources. Transportation of material from mining benches to various end points are considered as line sources. The impact of above sources on air environment is discussed below:

The other sources of air pollution are the dust generated during the movement of tippers on the haul road. Water tankers with spraying arrangement will be used for regular water sprinkling on the haul roads to ensure effective dust suppression. The tippers are well maintained so that exhaust smoke does not contribute abnormal values of noxious gases and un-burnt hydrocarbons.

4.5.6 Emission Details

All the emissions discussed above are quantified for air pollution due to maximum production of all existing and proposed Quarries (nine quarries + one existing quarry) were calculated. The existing air quality levels are covered in the baseline scenario.

Excavation, loading and transportation through tippers are the major sources, which are of significance. Therefore, the emissions considered for modeling are from drilling blasting, excavation & transportation rough stone and gravel.

The emissions are computed based on AP-42 emission factors. Operational hours, activity rate, wind speed and moisture content have been considered for estimation of emissions from point and area sources. For line source, apart from operational hours, activity rate, moisture, silt content and vehicle weight have been considered.

Predictions are carried out for the worst-case scenario of simultaneous operation of excavators (area sources) and tippers for transportation from mine pit to loading pit (line sources) over a distance of 500 m.

The number of working days has been taken at 300 days per year with 8 hours of operation/day, hence the concentrations predicted are considered to be the worst

case. With control measures, the emissions have been taken at 30% of uncontrolled emissions for handling and 10% of uncontrolled emissions for transportation.

4.5.7 Meteorological Data

The meteorological data recorded continuously during the month of March 2025 – May 2025 on hourly basis on wind speed, wind direction and temperature has been processed to extract the 24- hourly mean meteorological data as per the guidelines of IMD and MoEF for application of AERMOD model. Stability classes computed for the mean hours is based on guidelines issued by CPCB on modeling. Mixing heights representative of the region have been taken from the available published literature.

4.5.8 Summary of Predicted Ground Level Concentrations

Ground level concentrations due to the mining activities have been estimated to know the incremental raise and extent of impact in the study area.

The maximum ground level concentration is estimated to be about 2.16 µg/m^3 of PM 2.5 & 4.01 µg/m^3 of PM_{10} within the mine area and cluster area is estimated to be about 4.32 µg/m^3 of PM 2.5 & 5.94 µg/m^3 of PM_{10}, where mining operations are being carried out. The impact of mining operations would be negligible beyond 0.4 km.

Figure – 4.1 represents the spatial distribution of the predicted ground level concentrations of PM_{10} due to emissions from mine.

4.5.9 Emission sources & Quantification

Various point and non-point sources of emissions from Proposed Rough Stone Quarry of P.Velmurugan is quantified and presented below:

(I) Area Emissions – Total Material handling (Rough Stone)

Quantity, TPA	Thiru.P.Velmurugan: Rough Stone: 3,70,850 m3 (Five Years)
Operational Hours Per Year	2400
Activity Rate, t/hr.	400.910
Emission of dust, g/t.	0.17
Emission of dust, g /hr.	52.401
Area of influence, m^2	622
Uncontrolled emission rate g/s/m^2	0.00005821
Controlled emission rate, PM10 g/s/m^2	0.00005821
Controlled emission rate, PM2.5 g/s/m^2	0.00004120

(II) Line Source – Transport of Rough Stone from Pit to Boundary

Quantity, TPA	Thiru.P.Velmurugan: Rough Stone: 3,70,850 m3 (Five Years)
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	2415
Lead length/trip, Km	0.9
Total VKT/Year	80321
Emission Kg/VKT	0.20
Total emission Kg/Year	28101
Uncontrolled emission rate g/s/m	4.02112
Controlled emission rate, PM10 g/s/m	0.40211
Controlled emission rate, PM2.5 g/s/m	0.31091

Area Emissions – Total Material handling (Cluster Rough Stone)

Quantity, m3	**Proposed Quarries:** Rough stone Thiru.R.Rajkumar - 8,59,663.75Ts M/s.Mars Mines - 5,68,150Ts Thiru.Hariharan.L - 9,79,115.50Ts Thiru.P.Velmurugan - 3,11,245Ts M/s.SR Mines and Minerals - 16,30,681.25Ts Thiru.M.Thangaraj - 3,48,576.25Ts Thiru.R.Vinoth - 3,66,300Ts M/s. Rajamalai Metals - 4,21,225Ts P. Velmurugan - 10,19,837.5Ts
Operational Hours Per Year	2400

Activity Rate, t/hr.	369.45
Emission of dust, g/t.	0.29
Emission of dust, g /hr.	75.4525
Area of influence, m2	625
Uncontrolled emission rate g/s/m2	0.0007724
Controlled emission rate, PM10 g/s/m2	0.00077241
Controlled emission rate, PM2.5 g/s/m2	0.0005149

Line Source – Transport of Rough Stone (Cluster)

Quantity, m3	**Proposed Quarries:** Rough stone Thiru.R.Rajkumar - 8,59,663.75Ts M/s.Mars Mines - 5,68,150Ts Thiru.Hariharan.L - 9,79,115.50Ts Thiru.P.Velmurugan - 3,11,245Ts M/s.SR Mines and Minerals - 16,30,681.25Ts Thiru.M.Thangaraj - 3,48,576.25Ts Thiru.R.Vinoth - 3,66,300Ts M/s. Rajamalai Metals - 4,21,225Ts P. Velmurugan - 10,19,837.5 Ts
Operational Hours Per Year	2400
Capacity of each Dumper (T)	10
Total No. of Tippers/ year	35496
Lead length/trip, Km	0.19
Total VKT/Year	724156
Emission Kg/VKT	0.23
Total emission Kg/Year	19567
Uncontrolled emission rate g/s/m	6.25645
Controlled emission rate, PM10 g/s/m	0.625645
Controlled emission rate, PM2.5 g/s/m	0.43845

Note: *Emission factor computed based on wind speed of 2 m/s, and moisture content of 10 %. + Emission factor computed based on silt content of 10 % and moisture content of 10 %

FIG 4.2 Isopleth of GLC Prediction for $PM_{2.5}$

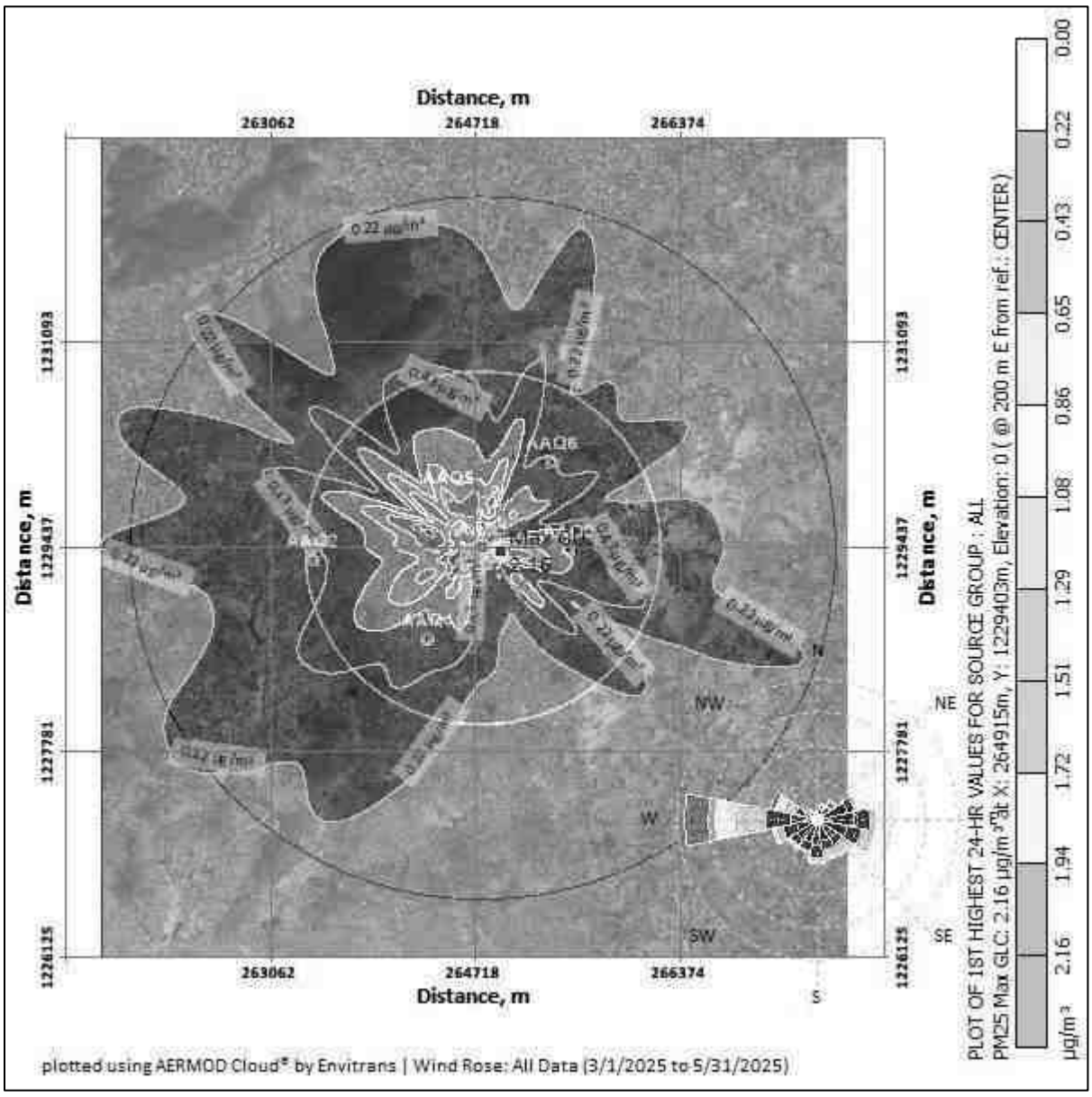


FIG 4.3 Isopleth of GLC Prediction for PM_{10}

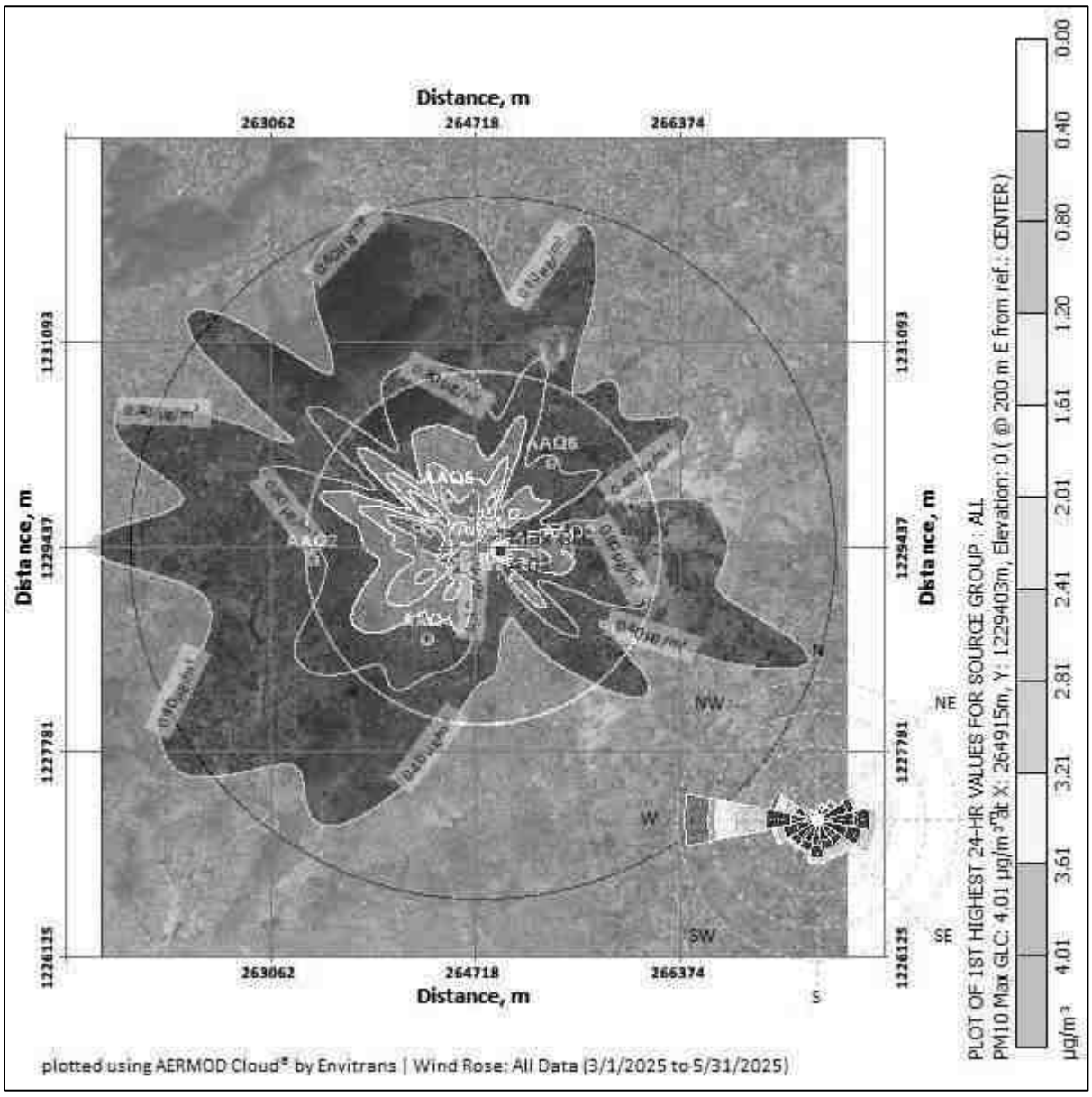


FIG 4.4 Isopleth of GLC Prediction –Cumulative for $PM_{2.5}$

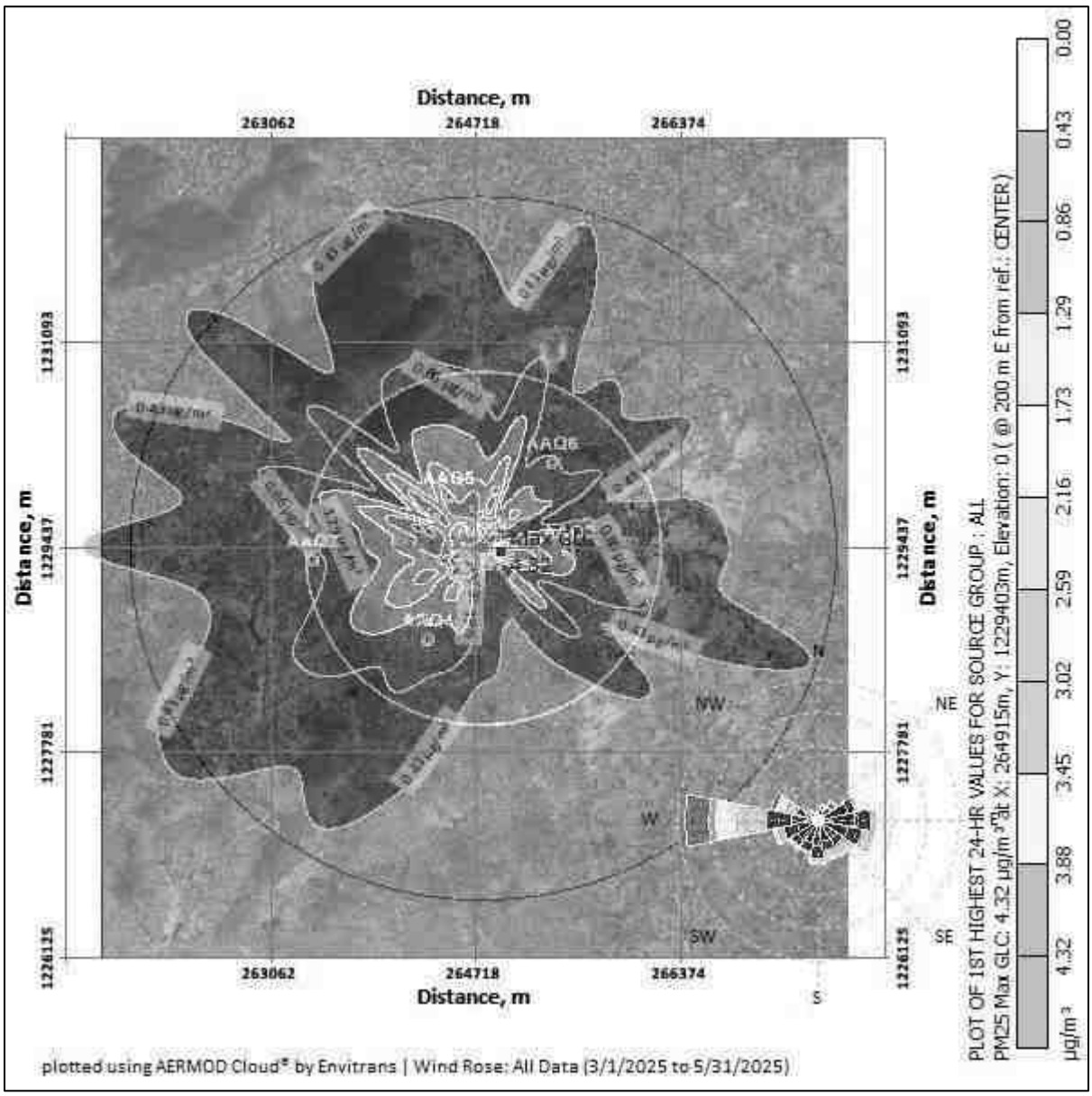
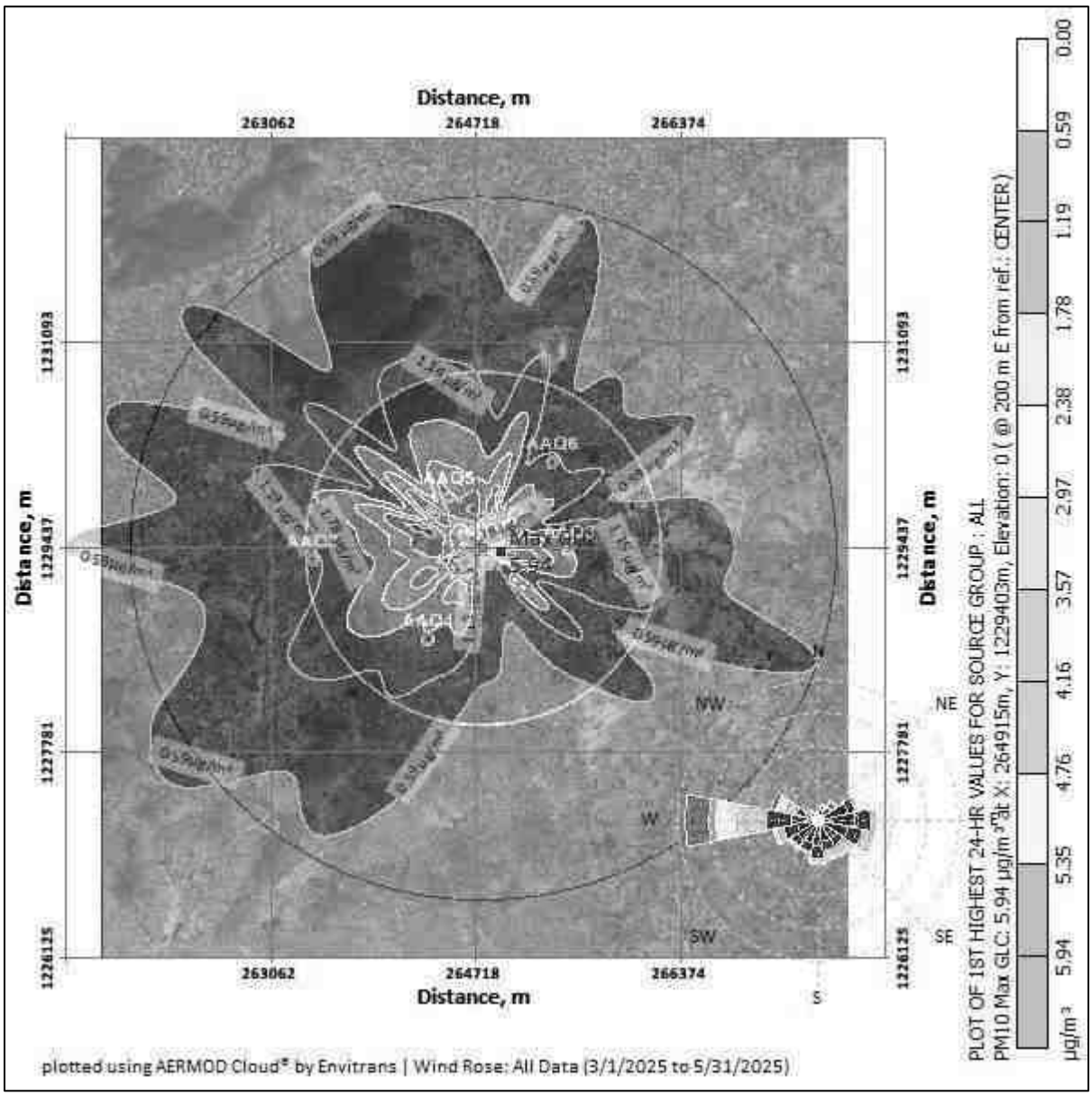


FIG 4.5 Isopleth of GLC Prediction –Cumulative for PM_{10}



4.5.10 PREDICTED AMBIENT AIR QUALITY

The post project Concentrations of PM10, PM2.5, (GLC) (base line + incremental) after adopting necessary control measures is given in Table No - 4.2 to 4.5.

Table 4.3 Concentrations of PM2.5 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Mine Lease Area	31.5	2.16	33.66	60
2	Sridevi Mangalam	25.6	1.94	27.54	
3	Near Therani Big Lake	23.4	1.72	25.12	
4	Padalur West	25.3	1.51	26.81	
5	Alathur	22.0	1.29	23.29	
6	Pudhukkurichi	23.7	1.08	24.78	
7	Padalur	22.4	0.86	23.26	

Table 4.4 Cluster Concentrations of PM2.5 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Mine Lease Area	31.5	4.32	35.82	60
2	Sridevi Mangalam	25.6	3.88	29.48	
3	Near Therani Big Lake	23.4	3.45	26.85	
4	Padalur West	25.3	3.02	28.32	
5	Alathur	22.0	2.59	24.59	
6	Pudhukkurichi	23.7	2.16	25.86	
7	Padalur	22.4	1.73	24.13	

Table 4.5 Concentrations of PM10 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Mine Lease Area	65.5	4.01	69.51	100
2	Sridevi Mangalam	53.4	3.61	57.01	
3	Near Therani Big Lake	49.8	3.21	53.01	
4	Padalur West	53.4	2.81	56.21	

5	Alathur	45.7	2.41	48.11	
6	Pudhukkurichi	50.0	2.01	52.01	
7	Padalur	47.0	1.61	48.61	

Table 4.6 Cluster Concentrations of PM10 after Project Implementation

SL. No	Location	Background Concentration	Predicted incremental Concentration	Post Project Concentration	Statutory Limits in µg/m³
1	Mine Lease Area	65.5	5.94	71.44	100
2	Sridevi Mangalam	53.4	5.35	58.75	
3	Near Therani Big Lake	49.8	4.76	54.56	
4	Padalur West	53.4	4.16	57.56	
5	Alathur	45.7	3.57	49.27	
6	Pudhukkurichi	50.0	2.97	52.97	
7	Padalur	47.0	2.38	49.38	

The above report seems that, even in the worst-case scenario, the resultant added concentrations with baseline figures show that the values of ambient air quality for PM_{10} are in the range of 48.11 µg/m^3 to 69.51 µg/m^3 and for $PM_{2.5}$ are in the range of 23.26 µg/m^3 to 33.66 µg/m^3 and PM_{10} are surrounding area range of 49.27 µg/m^3 to 71.44 µg/m^3 and for $PM_{2.5}$ are in the range of 24.13 µg/m^3 to 35.82 µg/m^3 which are within the statutory limits in each case. The mitigation measures undertaken in the mine for control of air pollution are given below.

- Wet drilling will be practiced in drilling operation.
- Water sprinkling will be done in haul roads & loading etc.
- The mines workers are provided with the dust masks.
- Three-layer plantation in the safety zone.
- DG sets shall be periodically maintained as per manufacturer's specifications.

4.6 ASSESSMENT OF SIGNIFICANCE OF IMPACTS (CRITERIA FOR DETERMINING SIGNIFICANCE, ASSIGNING SIGNIFICANCE).

4.6.1 NOISE ENVIRONMENT

The main noise generating source during mining operation and related activities are drilling, excavation, loading and transportation. Intermittent noise is generated due to operation of diesel generator.

4.6.2 Likely Noise Levels in Lease Area due to mining activity

S.No.	Source Name	Noise Level in dB (A)
1	Diesel generator	90
2	Excavator Operation	86
3	Trucks movement	82
4	Drilling	96
5	Blasting	102

It is expected that the generated noise will be limited within the mine lease area and there will be no profound effect of noise on the buffer zone. The noise level will be maintained below the threshold limit by vigorous maintenance of the machineries. Wet drilling with dust extractor is being used to reduce the noise level during the mining operation.

Noise levels were measured in the lease area and in the nearby Villages, the values are given below.

TABLE 4.7 Noise Levels in Monitoring Locations

S. No.	Location	Day Equivalent (in dBA)	Night Equivalent (dBA)
1	Mine Lease Area	50.8	38.3
2	Sridevi Mangalam	50.0	38.3
3	Near Therani Big Lake	49.1	41.9
4	Padalur West	47.9	41.1
5	Alathur	45.1	37.5
6	Pudhukkurichi	49.4	43.3
7	Padalur	50.8	39.2

The noise levels are within the MoEFCC limits of 70 dB(A) in the working area and in the buffer areas, the values are below the limit of 75 dB(A). Since, the residential area norm has been considered for all six locations mentioned above, during mining operation mine lease area will be considered as industrial area/quarry area for which DGMS norms 85 dB(A)/CPCB guidelines 75 dB(A).

4.6.3 Impact of Noise due to mining

- Noise generation in mining is due to operation like drilling, blasting and transportation of minerals within and outside the lease area.
- As per DGMS (Directorate General of Mines Safety) limits, the acceptable noise level is 85 dB(A) for an exposure period of 8 hours.
- Exposure to loud noise can also cause high blood pressure, heart disease, sleep disturbances, and stress. Noise pollution also impacts the health and well-being of wildlife.
- Noise exceeding prescribed limits may cause impairment like abnormal loudness perception, tinnitus which causes a persistent high-pitched ringing in the ears, paracusis or distorted hearing.

4.7 MITIGATION MEASURES

4.7.1 Noise level control.

- As the distance between the source and receptor increases, the noise level decreases. Hence, there will be a natural attenuation.
- The proponent has planned to develop green belt in the periphery of the lease area which diminishes sound volume by dampening them.
- All the equipment/machinery/tippers involved will be properly maintained to control noise generation.
- Conducting regular health checkups for employees involved.
- Employees will be made to work on shifts to reduce their exposure time.
- Providing earplugs to all employees.
- Providing green walls/nets wherever possible.

By adopting these measures, the noise levels will be maintained well within MoEF & CC limits since the baseline value is low.

4.7.2 IMPACTS DUE TO VIBRATION

There will be negligible vibration of ground due to the following activities.

- Due to Blasting
- Due to Drilling
- Due to movement of machinery

Impacts

- Though vibration will be only felt by the people working inside the lease area it is usually undesired.
- Vibration may also cause fly rocks.
- It may frighten the birds and small insects in the lease area. However, it will be felt only for a short period.

Mitigation measures

- The DG set will be kept within the acoustic enclosure made by the stone blocks.
- Drills will be equipped with sharp bits and wet drilling will be adopted.
- A well-planned green belt is proposed for the mining to reduce noise level.
- Proper warning system before blasting will be adopted and clearance of the area before blasting will be ensured.
- Regular maintenance of the machineries and vehicles to reduce the noise level.
- Use of ear muffs by the workers with occupational exposure to noise.
- Carrying out blasting on limited scale, only from 12:00 PM to 2:00 PM
- Control of fly rock and vibration by maintaining peak particle velocity within the standard as prescribed by the DGMS and MOEFCC.
- Shallow depth jackhammer drilling and blasting is proposed to be carried out with minimum use of explosive.
- Supervising blasting by competent and statutory Foreman/ Mines Manager.

4.7.3 SOCIO ECONOMIC IMPACT

The lease area is Government Poramboke Land. The proponent has planned to spend INR 3,00,000 for CER activities.

4.7.4 OCCUPATIONAL HEALTH

Impacts on humans due to various mining activities

The occupational risk due to proposed mining may be due to drilling, blasting, excavation and transportation. A total of 32 workers will be engaged in the mining activity. Mining activity may cause various health problems to the mines workers as follows:

- Dust generated during excavation, drilling, stone cutting, sizing and transportation may cause health problems like Silicosis, Asthma, Tuberculosis and other respiratory lungs disorders.
- Heavy weight lifting by the workers may cause injuries to arms, legs and back.
- Noise generated during the mining activity may cause Noise Induced Hearing Loss (NIHL).

Table 4.8 Impacts on humans due to various mining activities

S.No.	Type of activity	Impact
1	Dust generation due to drilling and blasting	Continuous exposure to dust causes Pneumonia, Tuberculosis, Rhematic arthritis and Segmental Vibration
2	Noise generation due to drilling and blasting	Short term impact will be lack of sleep, high blood pressure and heart ailments. Long term exposure may lead to partial or permanent deafness
3	Unexpected accidents	Risks include fly rocks, cracks or fissures due to improper mining methods

Mitigation measures

- The mines worker will be provided with dust mask to minimize the inhalation of the dust.
- Water sprinkling twice in a day is in practice on the haul roads, near excavation and roads to reduce the fugitive dust emission.

- Wet drilling and drilling with dust extractor will be practiced.
- Ear muffs will be supplied to the workers working in the noise prone area
- The mining site will be supplied with first aid facilities and the entire mines worker will have access to that.
- The mines workers will be well trained about the safety practices in the mining activities.
- As per Mines Rules, 1955, medical examination of employees at the initial stage and periodically, shall be done by a team of qualified medical officers provided by the project proponent.
- Regular medical checkup camps shall also be arranged for detection of occupational diseases and minor disease in the nearby rural population.
- Free checkup and medicine for treatment for their acute and chronic illness shall be provided by the lessee. Conducting periodical Medical Examination as per DGMS.
- Making all first aid kits available in mines office
- Keeping fire extinguisher in place
- Educating the employees about how to handle unexpected happenings
- Posting information containing emergency contact numbers in mines office
- By adopting all these measures, the safety of the employees working in the quarry will be ensured.

4.7.5 WASTE MANAGEMENT

Solid Waste

Since the entire mined out material will be utilized there will not be any solid waste generation from this project. However, the Solid waste (MSW) generated from administrative activities will be properly collected and disposed to Govt. Authorized yards / Re-cylers / Disposers.

Liquid Waste

There is no process effluent generation from this mine. Hence no liquid waste is generated. Domestic wastewater i.e 0.5 KLD will be discharged in soak pit via septic tank.

Hazardous Waste Management

In this project the following management practices will be followed:

In the quarrying operation, the source of hazardous waste is from machinery maintenance activities that are waste oil/ Waste lubricants / Used filters / Used Hydraulic horses. The said hazardous waste are very negligible quantity, it will be properly collected in the source level, stored in impervious storage yards and disposed of as per the Hazardous waste (Trans-boundary Movement) Management Rules, 2016.

Plastic Waste

Single use plastics/ use and throwaway plastics will be banned in the site as directed by the Tamil Nadu Government vide GO(Ms)No.84 regarding ban on use of plastic products. The employees will be encouraged to use compostable material or reusable material.

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CHAPTER 5

ANALYSIS OF ALTERNATIVES

5.1 DESCRIPTION OF EACH ALTERNATIVE

Analysis of alternative site helps in selection of best possible site for the project. On one hand it helps to closeness to the existing infrastructure and on other hand it also helps to minimize the impact of project on environment.

5.2 SUMMARY OF ADVERSE IMPACTS OF EACH ALTERNATIVE

The project proponent has prepared mining plan under rule 8, 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959 and the same has been approved by the Assistant Director, Dept. of Geology & Mining, Perambalur vide Rc.No. 125/2024(Mines) dated 13.06.2025.

- There is no forest land or other Eco-sensitive places.
- Proposed mine site is selected on the basis of occurrence of mineral for suitable end use.

Hence seeking alternative site is not required.

5.3 MITIGATION MEASURES PROPOSED FOR EACH ALTERNATIVE

The mining technology is mechanized Opencast in single-shift operation without any change in technology. The operation will be carried out as per DGMS norms. No alternate technology will be used. Details of the technology used are given in Chapter II.

5.4 SELECTION OF ALTERNATIVE

In case of Mining projects alternate site selection is not necessary as the mining is site specific and the area in which mining will be carried out has been adequately proved for presence of mineral. The deposit is also having good infrastructural facilities for access and development.

The mining technology is mechanized Opencast in single-shift operation without

any change in technology. The operation will be carried out as per DGMS norms. No alternate technology will be used. Details of the technology used are given in Chapter II.

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CHAPTER 6

ENVIRONMENTAL MONITORING PROGRAMME

6.1 TECHNICAL ASPECTS OF THE MONITORING THE EFFECTIVENESS OF MITIGATION MEASURES (INCL MEASUREMENTS, METHODOLOGIES, FREQUENCY LOCATION DATA ANALYSIS, REPORTING SCHEDULES EMERGENCY PROCEDURES DETAILED BUDGET AND PROCUREMENT SCHEDULES)

6.1.1 ENVIRONMENTAL MONITORING

Monitoring is done to measure the efficiency of control measures implemented. Regular monitoring of various environmental parameters like air, water, noise and soil environments is needed to assess the status of environment during the project operation.

A schedule is framed with timeline to monitor various parameters during the operation of the project. The schedule is framed based on MoEFCC and Tamil Nadu State Pollution Control Board. In case the SEIAA/TNPCB/MoEFCC or other statutory bodies demand monitoring of any additional parameter/factor, the same will also be done.

The proposed quarry is a small quarry. Hence the Mines-in-charge will be responsible for environmental related activities. After obtaining EC, the conditions mentioned in EC will be strictly followed. The Mines-in-charge will be responsible for implementing the conditions. EC compliance report will also be submitted periodically.

6.1.2 OBJECTIVES OF ENVIRONMENTAL MONITORING

The objectives of Environmental Monitoring are as follows.

- Monitoring and analysis of air and water samples
- Implementing the control and protective measures.
- Coordinating the environment related activities within the project as well as with outside agencies. Collecting statistics of health of workers and population of the surrounding villages. Green belt development etc.

- Monitoring the progress of implementation of Environmental Management Programme.
- Monitoring the noise generation in and around the project areas.
- Monitoring of wastewater treatment and disposal of solid waste.
- The laboratory will be suitably equipped for sampling/testing for various environmental pollutants.

6.1.3 ENVIRONMENTAL MONITORING SCHEDULE

To evaluate the effectiveness of Environmental Management Programme, regular monitoring of the important environmental parameters will be taken up. The frequency of monitoring different parameters is given in table 6.1.

Table 6.1 Environmental Monitoring Schedule

Sl.No.	Description of Parameters	Parameters	Frequency
1	Air	Air Quality for SPM, PM-10, PM-2.5, SO_2 and NO_x	24-hour average samples Once in a 3 month.
2	Water	General, Physical, and chemical parameters	Once per season
3	Noise	L_{eq}, L_{max}, L_{min}, L_{eq} Day & L_{eq} Night dB(A)	8-hour average samples Once in a 3 month.
4	Soil	Physical and Chemical characteristics.	Once per season

6.1.4 LOCATION

Monitoring of the above-mentioned environmental parameters would be done at appropriate and sensitive areas. The exact location of monitoring is given as Figure – 3.4, 3.10, 3.12 & 3.14.

6.1.5 MEASUREMENT METHODOLOGY

(a) Ambient Air Quality

Ambient air quality will be monitored for SO_2, NO_x, PM_{10} and $PM_{2.5}$. The instruments like high volume air samplers and Respirable dust samplers would be used for this purpose. These parameters will be monitored as mentioned in the monitoring schedule previously.

(b) Water Quality

Water quality analysis will be done quarterly and the monitored parameters include pH, Temperature, TDS, etc. as specified by SPCB from time to time.

(c) Noise Monitoring

Noise level will be monitored in working environment mainly noise producing sources over the boundary and around the mining area**.**

(d) Green Belt and Afforested Areas

Continuous vigilance and monitoring of green belt will be done for performance and survival rate of the saplings. Watch and ward personnel will properly guard the plantation. Provision will be made for fertilizers application and watering on schedule.

(e) Socio-Economics

Socio-economic of the core and buffer zone details elaborated in Chapter-3.

6.1.6 TECHNICAL ASPECTS OF MONITORING THE EFFECTIVENESS OF MITIGATION MEASURES

The above monitoring schedule will be followed periodically. After collection of the data, the mines-in-charge will analyze the data obtained. The data thus obtained will be incorporated in the EC Compliance report submitted to the regional office, MoEFCC. The measurement methodologies will be as per CPCB/BIS/MoEFCC/DGMS norms.

6.1.7 EMERGENCY PROCEDURES

In case of any emergency due to environmental conditions, the mines in-charge will immediately report to the top-level management and the emergency response protocol will be implemented as per MoEFCC/ SPCB / DGMS norms.

6.1.8 REPORTS TO BE GENERATED

The Project Proponent will maintain records of each test and its interpretation so as to formulate an adequate Environmental Management Plan. The set of records planned to be maintained by Project Proponent are given in below table 6.2.

Table 6.2 Important Records to be maintained by PP	
S.No.	**Particulars**
1	Monitoring results for Air, Water & Soil.
2	Records of slope failure, land erosion & drainage.
3	Plantation Records
4	Environmental and related standards/ norms
5	Records pertaining to statutory consents, approvals.
6	Periodic Medical examination (PME) records.
7	Complain register (Environmental pollution)
8	Records on water and electricity consumption
9	Periodic progress records.
10	Environmental Expenses Records

6.1.9 DETAILED BUDGET AND PROCUREMENT SCHEDULES

The budget planned for environmental monitoring is given below.

Table 6.3 - Environmental Management Plan Budget

Sl. No	Budget planned for	Capital Cost Amount (INR)	Recurring Cost/Annum Amount (INR)
1	Air Environment	7.67	1.01
2	Noise Environment	0.30	0.02
3	Waste Management	0.25	0.12
4	Mine Closure	0.43	0.09
5	Implementation of EC, Mining Plan & DGMS Condition	0.71	0.76
Total		9.36	1.99

Total EMP Cost for 5 years is 20.37 lakhs i.e., Rs.9.36 Lakhs of Capital Cost + Rs.11.01 Lakhs of Recurring Cost (For 5 Years)

CHAPTER 7
ADDITIONAL STUDIES

The following Additional Studies were done as per items identified by project proponent and the regulatory authority.

- Public Consultation
- Risk Assessment
- Disaster Management Plan
- Cumulative Impact Study
- Mine Closure Plan
- Slope Stability Plan

7.1 PUBLIC CONSULTATION

This draft EIA/EMP report will be exposed to public consultation as per mandatory procedures through the District Collector and State Pollution Control Board officials after giving 30 days advance notice in two local newspapers about the scheduled date and time for conduct of the public hearing procedures. The opinions, concerns and objections of stakeholders will be recorded during the public hearing. All the public queries and the replies to the query by the project proponent and officials concerned will be recorded and incorporated in the EIA/EMP report for approval by SEIAA, Tamil Nadu.

7.2 RISK ASSESSMENT

The DGMS risk assessment process is intended to identify existing and probable hazards in the work environment and all operations and assess the risk levels of those hazards in order to prioritize those that need immediate attention. Further, mechanisms responsible for these hazards are identified and their control measures, set to timetable are recorded along with pinpointed responsibilities.The whole quarry operation will be carried out under the direction of a Qualified Competent person holding certificate of competency to manage a metalliferous mine granted by the DGMS. Factors of risks involved due to human induced activities in connection with this proposed mining & allied activity with detailed analysis of causes and control measures for the mine is given in below Table 7.1.

Table 7.1 Risk Assessment and Control Measures

S.NO	Risk Factor	Causes of risk	Control Measures
1	Accidents due to explosives and heavy mining machineries	Improper handling and unsafe working practice	• All safety precautions and provisions of Mine Act, 1952, Metalliferous Mines Regulation, 1961 and Mines Rules, 1955 will be strictly followed during all mining operations. • Entry of unauthorized persons will be prohibited. • Fire-fighting and first-aid provisions in the mine office complex and mining area. • Provisions of all the safety appliances such as safety boot, helmets, goggles etc. will be made available to the employees and regular check for their use. • Quarry operation will be done as per approved mining plan and other applicable statutory guidelines issued by DGMS, Dept. of Mining & Geology-TamilNadu. • Handling of explosives, charging and firing shall be carried out under competent statutory persons. • A comprehensive standard operating procedure (SOP) will be prepared as per DGMS guidelines and the same will be circulated to all the employees and it will be strictly followed in the all face of mining operation.
2	Drilling	Improper and unsafe practices. Due to high pressure of compressed air, hoses may burst. Drill Rod may break.	• Safe operating procedure established for drilling (SOP) will be strictly followed. • Only trained operators will be deployed. • No drilling shall be commenced in an area where shots have been fired until the blaster/blasting foreman has made a thorough Examination of all places. • Drilling shall not be carried on simultaneously on the benches at places directly one above the other.

			• Periodical preventive maintenance and replacement of worn-out accessories in the compressor and drill equipment as per operator manual. • Drills unit shall be provided with wet drilling to ensure efficient working.
3	Blasting	Fly rock, ground vibration, Noise and dust. Improper charging, stemming & Blasting/ fining of blast holes. Vibration due to movement of vehicles.	• Restrict maximum charge per delay as per approved mining plan. • Proper blasting design with optimum spacing & burden, Charge per delay and stemming. • SOP for Charging, Stemming & Blasting/Firing of Blast Holes will be followed by blasting crew during initial stage of operation. • Shots are fired during day time only. • Charging and firing shall be carried out in the same day. • Siren will be done for each blasting. Blasting evacuation plan prepared and executed. • The danger zone will be distinctly demarcated (by means of red flags).
5	Transportation	Potential hazards and unsafe workings contributing to accident and injuries. Overloading of material. While reversal & overtaking of vehicle. Operator of truck leaving his cabin when it is loaded.	• Before commencing work, drivers personally check the dumper/truck/tipper for oil(s), fuel and water levels, tyre inflation, general cleanliness and inspect the brakes, steering system, warning devices including automatically operated audio-visual reversing alarm, rear view mirrors, side indicator lights etc., are in good condition. Unauthorized person will not be allowed to operate or ride on the vehicle. • Loading according to the vehicle capacity. • Periodical maintenance of vehicles as per operator manual.

6	Natural calamities	Unexpected happenings	• An emergency management plan will be prepared considering all possible national calamity and the same will be executed if any such situation occurs. • Escape Routes will be provided to prevent inundation of storm water. • Fire Extinguishers & Sand Buckets in the designated areas.
7	Failure of Mine Benches and Pit Slope	Slope geometry, Geological structure	Ultimate or over all pit slope shall be below 60° and each bench height shall be 5m height.

7.3 DISASTER MANAGEMENT PLAN

This being a small rough stone project that too working in a safe area, no major disaster is expected after following all the statutory rules and regulations.

7.3.1 MODEL DISASTER MANAGEMENT PLAN

The lessee has formulated the disaster Management plan keeping all eventualities in mind.

The mining operation will be carried out under the direction of qualified mines manager and supervisors, based on the guidelines and directions of Directorate General of Mines Safety (DGMS) and Indian Bureau of Mines. Code of practice of different operations will be formulated to ensure safety of men and machines and to avoid various hazards mentioned above. Mine workers will be provided training on safe work practices. The following natural/ industrial hazards may occur during normal operation; slope failure at the mine faces; accident due to heavy equipment/ machinery.

In order to prevent or take care of hazard / disasters if any the following control measures have been adopted.

- All safety precautions and provisions of Metalliferous Mines Regulations (MMR), 1961 is strictly followed during all mining operations.
- Observance of all safety precautions for blasting and storage of explosives as per MMR 1961.
- Entry of unauthorized persons into mine & allied areas is completely prohibited.
- Fire-fighting and first-aid provisions in the mines office complex and mining area are provided.
- Provisions of all the safety appliances such as safety boot, helmets, goggles, dust masks, ear plugs and ear muffs etc. are made available to the employees and the use of same is strictly adhered to through regular monitoring.
- Training and refresher courses for all the employees working in hazardous

premises. Working of mine, as per approved plans and regularly updating the mine plans.

- Handling of explosives, charging and blasting are carried out only by qualified persons following SOP.
- Checking and regular maintenance of garland drains and earthen bunds to avoid any inflow of surface water in the mine pit.
- Provision of high-capacity standby pumps with generator sets with enough quantity of diesel for emergency pumping especially during monsoon.
- A blasting SIREN is used at the time of blasting for audio signal.
- Before blasting and after blasting, red and green flags are displayed as visual signals. Warning notice boards indicating the time of blasting and NOT TO TRESPASS are displayed at prominent places.
- Regular maintenance and testing of all mining equipment were carried out as per manufacturer's guidelines.

7.3.2 OBJECTIVE OF DISASTER MANAGEMENT PLAN

The objective of disaster management plan is to identify mitigation measures to avoid hazards turning in to risk, the materials required for implementing the same, the personnel requirement and their roles and responsibilities, and the communication and operating procedures to be adopted in case of an emergency.

Communication System

The telephone numbers and addresses of mine sites in the vicinity, nearest fire station, police station, local hospital, electricity department, ambulance, and local public representatives and revenue officials shall be prepared and kept in custody of PP.

Facilities

The office shed will have provision of first aid centre to provide first aid in the event of an emergency. The office shed will also function as emergency control room. It

will be provided with telephone and mobile phones, and a vehicle for emergency transport.

Personnel

The PP is responsible for overall supervision of the disaster management plan. He will be assisted by supervisors, in implementing the emergency management plan and procedures.

Operating Procedures

The operating procedures during emergencies are related communication to the immediate supervisor, who would relay the same to PP. The PP may assess the requirement of first aid, external assistance, transportation to nearby hospital contingent on the emergency. In the absence of mines manager, the senior most supervisor will be made responsible for disaster management.

7.4 CUMULATIVE IMPACT STUDY

There are 9 proposed quarries including this proposal are located within a radius of 500 m from this proposed project area. The proposed quarries situated within 500 m radius are presented in below Table 7.2 and the letter received from Dept. of Geology and Mining, Perambalur stating the quarries detail within 500m radius is enclosed in Annexure – 4.

Table 7.2 Details of Quarries within 500m radius

S. No.	Name of the Quarry Owner	S.F. Nos & Village	Lease Status	Area in Ha
a. Existing Quarry				
NIL				
b. Abandoned Quarry				
1.	B.Senthilkumar	Padalur (E) – 10/1 (Part)	12.04.2006 to 11.04.2016	1.00.0
2.	R.Sureshbabu	Padalur East – 10/1 – Block 17	23.05.2007 to 22.05.2017	1.00.0
3.	S.N.Vinoba	Padalur East – 10/1 –	26.04.2007 to	1.00.0

		Block 5	25.04.2012	
4.	M.Raja	Padalur East -10/1 - Block 3	07.06.2007 to 06.06.2012	1.00.0
5.	D.Raja	Padalur East – 10/1 Block 6	11.05.2007 to 10.05.2012	1.00.0
6.	V.Panneerselvam	Padalur East – 10/1 – Block 22	31.05.2011 to 30.05.2021	1.00.0
7.	K.Mathiyalagan	Padalur East – 10/1 – Block 18	23.05.2007 to 22.05.2017	1.00.0
8.	M.Baskaran	Padalur East – 4(1)(P),4(2)(P),7(3)(P)	24.01.2018 to 23.01.2023	2.00.0
9.	V.Kamalasekar	Padalur East – 47/1A	22.03.2010 to 21.03.2015	0.81.0
c. **Expired Quarries**				
NIL				
d. Proposed Quarry				
1.	Thiru.Vinoth R	Padalur East -10/1 (Block 8)	Proposed	1.20.0
2.	Thiru. R. Rajkumar	Padalur East – 10/1 (Block 1)	Proposed	1.50.0
3.	Thiru. Hariharan L	Padalur East – 10/1 (Block 2)	Proposed	1.40.6
4.	Thiru.P.Velmurugan	Padalur East – 10/1 (Block 3)	Proposed	1.40.0
5.	M/s. Rajamalai Metals	Padalur East -10/1 (Block – 4)	Proposed	1.40.0
6.	M/s. SR Mines and Minerals	Padalur East – 10/1 (Block 6)	Proposed	2.20.0
7.	Thiru.M. Thangaraj	Padalur East – 10/1 (Block 5)	Proposed	2.10.0
8.	M/s. Mars Mines	Padalur East – 10/1 (Block 7)	Proposed	1.30.0
9.	Thiru.P. Velmurugan	Padalur East – 10/1 (Block 13)	Proposed	1.00.0
Total Area of Cluster		**14.70.60 Ha**		

As seen above, although the individual lease area of this project is less than 5 hectares, the ten proposed quarries within a 500-meter radius, add up to more

than 5 hectares i.e. 14.70.60 Ha. A map showing the existing and proposed quarry located within 500m radius is given in Figure 1.1.

The cumulative production load of existing and proposed Rough stone quarries within cluster is shown in below table.

Table 7. 3 Salient Features of Existing & Proposed Quarries

Description		P1	P2	P3	P4	P5	P6	P7	P8	P9
Name of the Quarry	**Name of the Quarry**	**Thiru.R.Rajkumar**	**M/s.Mars Mines**	**Thiru.Hariharan.L**	**Thiru.P.Velmurugan**	**M/s.SR Mines and Minerals**	**Thiru.M.Thangaraj**	**Thiru.R.Vinoth**	**M/s. Rajamalai Metals**	**P. Velmurugan**
Geological Resources in Ts	Rough stone	17,24,813.75Ts	15,35,572.50Ts	68,32,197 Ts	9,76,195Ts	27,00,156.25Ts	18,45,772.5Ts	12,04,252.50Ts	9,55,175	26,81,525 Ts
Mineable Reserves in Ts	Rough stone	8,59,663.75Ts	5,68,150Ts	9,79,115.50Ts	3,11,245Ts	16,30,681.25Ts	3,48,576.25Ts	3,66,300Ts	4,21,225	10,19,837.5 Ts
Production quantity for the period of 5years	Rough stone	8,59,663.75Ts	5,68,150Ts	9,79,115.50Ts	3,11,245Ts	16,30,681.25Ts	3,48,576.25Ts	3,66,300Ts	4,21,225	10,19,837.5 Ts
Annual Peak Production in Ts		173649	115473	98697.50 Ts	66082.5	196763	70001.3	74250	-	-
Production per day in Ts		579	385	329	220	656	233	247	515.875	1818
Lorry Loads per day in Nos		58	39	33	22	66	23	25	52	182
Employment in Nos		30	29	33	23	29	25	25	31	32
Proposed Depth in meters		56	51	56	41	56	81	56	56m (31m AGL+25 m BGL)	81m (61m AGL & 20m BGL)
Status of the quarry		Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed	Proposed

Air Environment

Based on the above production quantities the emissions due to various activities in 9 proposed mines includes various activities like ground preparation, excavation, handling and transport.

The data on the cumulative production resulting from the 9 projects have been given in Tables 7.4.

Table 7.4 Cumulative Production Load

Mineral Transportation			
Production Per day in tons			
Quarry	**Quarry Name**	**Total Mineral in tons per day**	**No. of Lorry Load per day**
P1 (Proposed)	Thiru.R.Vinoth	247	25
P2 (Proposed)	Thiru.R.Rajkumar	579	58
P3 (Proposed)	M/s.Mars Mines	385	39
P4(Proposed)	Thiru.Hariharan.L	329	33
P5(Proposed)	Thiru.P.Velmurugan	220	22
P6(Proposed)	M/s.SR Mines and Minerals	656	66
P7 (Proposed)	Thiru.M.Thangaraj	233	23
P8(Proposed)	M/s. Rajamalai Metals	515	52
P9(Proposed)	P. Velmurugan	1818	182
Total		**4982**	**500**

The cumulative study shows that the overall production of minerals from the 10 quarries is 4982 tons per day with a capacity of 500 trips per day.

The proposed projects (9 Nos) will bring 500 trips per day. The existing road can absorb this additional traffic due to this project. Various measures like proper maintenance of road, covering of the loaded truck with tarpaulin, water sprinkling will be carried out to ensure no adverse impact on the logistical front. Traffic density study is detailed in section 2.11 of Chapter 2.

Cumulative Impact on Socio-economic Environment

The mining operations in the 9 mines will provide direct employment opportunity and indirect employment opportunity for scores of people through allied opportunities in logistics, contract workers, trading, repairing works etc. Various mitigative measures suggested in this report will be properly implemented to ensure that no adverse impact is felt on the socio economic and ecological front in the area.

Table 7.9 SOCIO ECONOMIC BENEFITS FROM 9 MINES

Proposed	Quarry Name	Employment	Project Cost including EMP Cost	CER
P1	R.Vinoth	25	Rs. 290.42 Lakhs	Rs.5.0 Lakhs
P2	M/s.SR Mines & Minerals	29	Rs.1127.99 Lakhs	Rs.5.0 Lakhs
P3	R.Rajkumar	30	Rs.538.47 Lakhs	Rs.5.0 Lakhs
P4	M/s. Mars Mines	29	Rs.513.04 Lakhs	Rs.3.0 Lakhs
P5	M. Thangaraj	25	Rs.254.62 Lakhs	Rs.5.0 Lakhs
P6	P. Velmurugan	23	Rs.348.27 Lakhs	Rs.3.0 Lakhs
P7	P. Velmurugan	32	Rs.618.87 Lakhs	Rs.3.0 Lakhs
P8	L.Hariharan	33	Rs. 952.23 Lakhs	Rs.3.0 Lakhs
P9	M/s. Rajamalai Metals	25	Rs.371.64 Lakhs	Rs.3.0 Lakhs
Total		**251**	**Rs. 5015.55 Lakhs**	**Rs.35.0 Lakhs**

7.5 CLUSTER MINE CLOSURE PLAN

In the mine closure stage, all necessary measures will be taken as per Act & Rules, there is no proposal for back filling, reclamation and rehabilitation in any of the proposals. The quarried pits after the end of life of mine will be properly fenced all around to prevent inherent entry of public and cattle and all the statutory requirements will be fulfilled. As already explained, in the post mining stage the rainwater harvested in the mined- out void shall be utilized for irrigation and domestic needs locally. The mine closure plan is provided in Figure 2.11.

7.6 SLOPE STABILITY PLAN

The factors that affect slope stability of the mine are detailed below.

- Geological structure comprising dip, intervening shear zone formation, clay intrusion, joints / discontinuities, faults etc.,
- Lithology of formation
- slope geometry
- Ground water availability which may cause increased thrust on the faces

Site Specific Analysis

- The quarry lease area is plain terrain which is covered by topsoiled rock formation. The rock type noticed in the lease area is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian.
- Since the formation is of homogeneous rock type probability of slope failure is low and can be avoided if proper measures are adopted.
- There will be a 7.5m safety zone which will form a ridge which can also take care of the top section and as such no risk is envisaged on this front.

Mitigation Measures

- Regular inspection of the mine faces to be carried out by pp for ensuring absence of any structural features like faults, joints, dyke, intrusive material in the rock strata which may affect the slope stability and cleared.
- No loose material or boulders is to be stacked on the mine top or pit benches.
- Height of the benches should be 5m.
- Haul road formation will be at 1 in 15 slope with adequate road width.
- There will be no ground water table intersection.
- No seepage is expected due to formation. Adequate drainage management system comprising peripheral garland drain, settling pond to regulate monsoon water will be created to prevent saturation of compact layers, apparent drainage over the bench slope to avert damages to quarry face and manage the water flow.

CHAPTER 8

PROJECT BENEFITS

The project area is located on barren land, thereby causing no impact on the loss of agriculture or forest land. The project will create employment opportunities in the area. There will be no adverse effect of mining on the socioeconomic status of the people; rather, mining activities will improve their standard of living. The mining activity creates employment opportunities for the local people, and this definitely raises their economic status. Apart from the overall beneficial impact of the project on the local people of the region, it is felt necessary to augment facilities in the fields of education, health, and social awareness, including concern for the environment and ecosystem.

The mining activity at proposed Rough Stone Quarry of Thiru.P.Velmurugan will create direct employment opportunity for 32 local people.

Based on the request letter received from Government High School, Padalur, the PP has proposed CER amount of Rs. 3.0 Lakhs for various activities.

The list of activities proposed for CER is mentioned below

Table 8.1 CER Activities

S. No.	PROPOSED CER ACTIVITIES	COST IN LAKHS.
1	Canteen construction	3.0
Total		**3.0**
The above-mentioned CER activities will be spent for Government High School, Padalur		

****

CHAPTER 9

ENVIRONMENTAL COST BENEFIT ANALYSIS

As per EIA Notification dated 14th Sept., 2006, as amended from time to time, 'Environmental Cost Benefit Analysis' is applicable only if the same is recommended at the Scoping stage.

As per the ToR points issued by SEIAA-TN vide ToR Identification No. TO25B0108TN5887407N, dated 25.09.2025 for the proposed project, the 'Environmental Cost Benefit Analysis' is not prescribed.

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CHAPTER 10

ENVIRONMENTAL MANAGEMENT PLAN

10.1 DESCRIPTION OF THE ADMINISTRATIVE ASPECTS OF ENSURING OF ENSURING THAT MITIGATIVE MEASURES ARE IMPLEMENTED AND THEIR EFFECTIVENESS MONITORED AFTER APPROVAL OF THE EIA

10.1.1 OBJECTIVES

The Environmental Management Plan is developed to ensure that a project is implemented in an environmentally sustainable manner, where all contractors and subcontractors, including consultants, understand the potential environmental risks arising from the project and take appropriate actions to minimize those risks. EMP also ensures that the project implementation is carried out in accordance with the planned design and by taking appropriate mitigation measures to reduce adverse environmental impacts during the project's life cycle. The impacts due to this mining project are detailed in Chapter 4 and Mitigation measures at the source level and an overall Management Plan at the site level are elaborated on in this chapter.

10.1.2 BASIC OF EMP

The Environmental Management Plan for the proposed project activities is formulated taking into considerations the following key environmental issues.

- Project activities
- Studies on Environmental Impact Assessment
- Air & water pollution control
- Working zone environment improvement
- Occupational hazards & safety
- Environmental monitoring facilities

- Environmental management costs

EMP covers all phases of the project considering the impacts with mitigation measures and monitoring programme. The plan outlines the measures that will be undertaken to ensure compliance with environmental legislations and to minimize adverse impact. Details of EMP measures for implementation in the mine are given below.

Table 10.1 Environmental Management Plan

Environmental Parameter	Mitigation Measures
Air	Wet drilling to suppress the dust emission from drill machine
	Regular water sprinkling on haulage road through fixed water sprinkler.
	1.0 KLD of water will be used for dust suppression.
	Avoiding blasting during high wind period, night times and temperature inversion periods.
	Regular grading of haul road to clear accumulation of loose material.
	It will be ensured that vehicles are properly maintained to comply with exhaust emission requirements
	Maintenance as per operator manual of the equipment and machinery in the mines to minimizing air pollution
	Ambient Air Quality Monitoring carried out in the project area and in surrounding villages to access the impact due to the mining activities and the efficacy of the adopted air pollution control measures.
	Afforestation for control of dust.
Surface water	Tank –260km (S) Tank – 620m (SE), Maruthadi Eri-1.35Km (SW), Therani Big Lake-4.16Km(SE), Nanthai River – 4.3 km (S)
	Surface runoff management structures like garland drain of required length which is connected to a settling pond will be constructed around the quarry to collect the rain water. Monthly or after rainfall, inspection will do to ensure performance of water management structures and systems. There is no discharge of any effluent into nearby water bodies.
Ground Water	The quarrying operation is proposed upto a depth of 81 m (61m above ground level and 20m below ground level), Water table is found at a depth of 67 m, hence the project will not intersect the Ground water table during entire quarry period.
Water	Water required for this project will be sourced from vendors.

Consumption and Wastewater generation	Domestic wastewater generation of 0.5 KLD will be treated in septic tank with soak pit.
	Conduct ground water and surface water monitoring for parameters specified by CPCB
Noise	The workers employed are provided with protection equipment, earmuffs and ear- plugs for the protection from high noise level generated at the mine site wherever required.
	Noise levels are controlled by using optimum explosive charge, proper delay detonators and proper stemming to prevent blow out of holes.
	Development of thick greenbelt all along the safety Zone (10m) of the project area to attenuate the noise and the same will be maintained.
	Preventive maintenance of mining machinery and replacement of worn-out accessories to control noise generation.
	Annual ambient noise level monitoring is carried out in the project area and in surrounding villages to access the impact due to the mining activities and the efficacy of the adopted noise control measures. Additional noise control measures will be adopted if required as per the observations during monitoring.
Ground Vibration and Fly Rock Control	Controlled blasting using delay detonators will be carried out to maintain the PPV value well within the prescribed standards of DGMS.
	Drilling and blasting will be carried under the supervision of qualified persons.
	Will be Ensured that blast holes are adequately stemmed for the depth of the hole and stemmed with suitable angular material.
	To be Undertake noise or vibration monitoring.
Land Environment	At conceptual stage, the mining pits will be converted into Rain Water Harvesting pit. Remaining area will be converted into greenbelt area.
	No external dumping i.e., outside the project area. The entire material will be sold.
	Garland drains with catch pits / settlement traps to be provided all around the project area to prevent run off affecting the surrounding lands.
	The periphery of Project area will be planted with thick plantation to arrest the fugitive dust, which will also act as acoustic barrier.
	Frequent Soil and ground water testing as per Environmental Monitoring Plan.
Top Soil / Overburden	There is no overburden anticipated during the quarrying operation.
Biological Environment	During mining, thick plantation will be carried out on the mentioned safety zone areas.
	The main attributes that retard the survival of sapling is fugitive dust, this fugitive dust can be controlled by water sprinkling on the haul roads

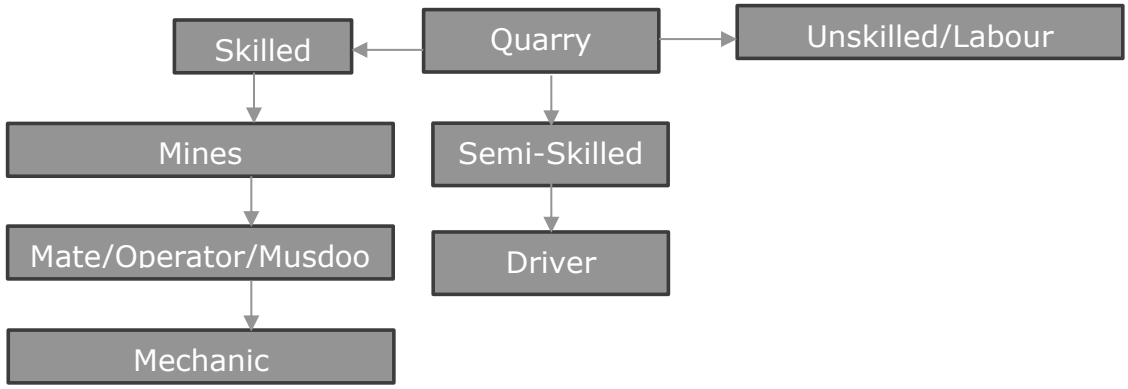
	and installing a sprinkler unit near the newly planted area.
	Regular review on green belt development programme.
	Year wise greenbelt development plan mentioned in Chapter III will be monitored.

10.1.3 ADMINISTRATION AND TECHNICAL SETUP

Since this is a very small quarry, the mines in-charge will take care of all environment related aspects. He will ensure effective implementation of environment management plan and to ensure compliance of environmental statutory guidelines through Mine Management Level. The action plan for monitoring consists of monitoring of following environmental components.

- Monitoring of the water/ waste water quality, air quality and solid waste generated.
- Analysis of the water and air samples collected through external laboratory.
- Implementation and monitoring of the pollution control and protective measures/ devices which shall include financial estimation, ordering, installation of air pollution control equipment, waste water treatment plant, etc.
- Co-ordination of the environment related activities within the project as well as with outside agencies.
- Collection of health statistics of the workers and population of the surrounding villages.
- Green belt development.
- Monitoring the progress of implementation of the environmental monitoring programme.
- Compliance to statutory provisions, norms of State Pollution Control Board, Ministry of Environment and Forests and the conditions of the environmental clearance as well as the consents to establish and consents to operate.

Fig. 10.1 Organization Chart



1.	Skilled	Mines Manager	1 Nos.
		Foreman / Mate	2 Nos.
		Operator	10 Nos.
		Mechanic	1 Nos.
2.	Semi–skilled	Driver	5 Nos.
3.	Unskilled	Labours	13 Nos.
Total			**32 Nos**

10.1.4 ENVIRONMENTAL POLICY

- The Project Proponent has stipulated a well-defined Environmental policy by which the lessee is committed to conducting business with a strong environmental conscience towards the community, customers, and employees. The Environment policy is given as below.
- The Environment policy of "Rough Stone Quarry of Thiru. P. VELMURUGAN is that the rules and commitment are driven towards conservation of the environment.
- The lessee is committed to efficient use of natural resources based on the reduce, recycle and reuse method.
- The project is committed to the identification of possible impacts and will take the necessary management steps to mitigate the impacts.
- Environment performance will be regularly monitored and reported for

continual improvement of our environment and health performance.

10.1.5 OCCUPATIONAL SAFETY & HEALTH MANAGEMENT

Occupational safety and health are very closely related to productivity and a good employer-employee relationship. The main factors affecting occupational health in quarries are fugitive dust and noise. Safety of employees during quarrying operations and maintenance of mining equipment will be taken care of as per the Mines Act 1952 and Rule 29 of the Mines Rules 1955. To avoid any adverse effect on the health of workers due to dust, noise, and vibration, sufficient measures have been provided. The health status of workers in the mine will be regularly monitored under an occupational surveillance programme. Under this programme, all employees are subjected to a detailed medical examination at the time of employment. Before the induction of employees, a pre-medical checkup is done. In addition, a periodical medical checkup will be done annually for all employees.

10.1.6 COST OF ENVIRONMENTAL CONTROL MEASURES

The effective implementation of EMP is not only reduce pollution load and comply the regulatory requirement but also increase productivity and improve marketability of product. The capital and recurring cost of EMP for the cluster of mines has been given in below table.

Table 10.2 - Environmental Management Plan Budget

Sl. No	Budget planned for	Capital Cost Amount (INR)	Recurring Cost/Annum Amount (INR)
1	Air Environment	7.67	1.01
2	Noise Environment	0.30	0.02
3	Waste Management	0.25	0.12
4	Mine Closure	0.43	0.09
5	Implementation of EC, Mining Plan & DGMS Condition	0.71	0.76
Total		**9.36**	**1.99**

Total EMP Cost for 5 years is 20.37 lakhs i.e., Rs.9.36 Lakhs of Capital Cost + Rs.11.01 Lakhs of Recurring Cost (For 5 Years).

10.1.7 CONCLUSION

Various aspects of mining activities were considered, and related impacts were evaluated. Considering all the possible ways to mitigate the Environmental concerns, an Environmental Management Plan was prepared, and INR 20.37 lakhs has been allocated for the same. The EMP is dynamic, flexible, and subjected to periodic review. For projects where major environmental impacts are associated, EMP will be under regular review. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP, and the project will have a positive impact on the study area.

CHAPTER 11

SUMMARY& CONCLUSION

11.1 OVER ALL JUSTIFICATION FOR IMPLEMENTATION OF THE PROJECT

INTRODUCTION

Thiru.P.Velmurugan has obtained Precise Area Communication Letter from Assistant Director, Department of Geology and Mining, Perambalur to quarry out 10,19,837.50 Ts / 3,70,850 m^3 of Rough Stone over an extent of 1.40.00 Ha located in S.F.No.10/1 (Block-3) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.

As per EIA notification, 2006 and its subsequent amendments the proposed "Rough Stone Quarry of Thiru.P.Velmurugan mines cluster falls under Schedule 1(a) of EIA Notification and its subsequent amendments the project comes under Category B1. The ToR for preparation of EIA/EMP report of the project was approved vide ToR Identification No. TO25B0108TN5887407N, Dated: 25.09.2025. This report has been prepared in line with the approved TOR for production of maximum excavation of 10,19,837.50 Ts/ 3,70,850 m^3 of Rough Stone.

S.No.	Description	Status/Remarks
1.	Sector	1(a), non-coal mining
2.	Category of the project	B1
3.	Proposed mineral	Rough Stone
4.	Type of Lease	Already operated by other lessee before 2015.
5.	Extent of the lease	1.40.00 Ha
6.	Proposed depth of Mining	81m (61m above ground level and 20m below ground level)
7.	Method of mining	Opencast Mechanized
8.	Proposed lease period	5 Years
9.	Proposed Environmental Clearance	5 Years
10.	Proposed production quantity for	10,19,837.50 Ts/ 3,70,850 m3 of Rough Stone

	five years	

The Lessee Thiru. P. VELMURUGAN is an individual with sound experience in the identification, quarrying and marketing of Rough Stone. The proposed land is a Government Poramboke land and attached as **Annexure 6.**

1.1.1 LOCATION

This project site is located in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State with Latitude: 11°06'54.84"N to 11°06'58.07"N and Longitude: 78°50'26.79"E to 78°50'33.65"E. with Survey of India Topo Sheet No.58 I/16. To conduct the study, the proposed mine lease area (core zone) and an impact zone of 10 km radius (called buffer zone) around the proposed mine site were considered. The EIA report is based on three months baseline data (i.e. March 2025 to May 2025)

11.1.2 GEOLOGY

The rock type noticed in the area for lease is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian minerals. The Charnockite is part of peninsular Gneisses, a high-grade metamorphic rock. The strike of the Charnockite formation is $N30^0W$-$S30^0E$ with vertical dipping.

11.1.3 PROJECT DESCRIPTION

This is a proposed Rough Stone quarry by Opencast Mechanized mining method with drilling and blasting. The quarrying is restricted up to a depth of 81m (61m above ground level and 20m below ground level). The geological reserves are estimated to be 26,81,525 Ts / 9,75,100 m^3 of Rough Stone and 29,540 Ts / 14,770 m3 of Top Soil. The mineable reserve calculated by deducting 10m safety distance and bench loss. The mineable reserves are 10,19,837.50 Ts/ 3,70,850 m^3 of Rough Stone and 20,000 Ts / 10,000 m3 of Top Soil which will be recovered at the rate of 100% recovery upto a depth of 81m (61m above ground level and 20m below ground level) for the period of five years.

- It is proposed to quarry out rough stone with 5m bench height, 5m width with 45° slope using conventional Open cast Mechanized method. The quarry operation involves shallow jack hammer drilling, slurry blasting, excavation, Loading and transportation of Rough Stone.
- There is no overburden anticipated during entire rough stone quarrying operation.

S.No.	Type of Detail	Description
1	Sector	1(a) Non coal mining
2	Fresh/Existing project	Already operated by some another lessee before 2015.
3	Category	B1
4	Nature of mineral	Minor mineral
5	Production	10,19,837.50 Ts/ 3,70,850 m^3 of Rough Stone
6	Life	5 years
7	Waste generation and management	There is no overburden anticipated during the quarrying operation. Hence, no waste generation.
8	Bench height and width	Height and Width – 5m
9	Ultimate pit depth	81 m (61m above ground level and 20m below ground level)
10	End use	Rough Stone will be loaded into tippers to needy buyers for producing aggregates, M-sand.

11.1.4 PROJECT REQUIREMENTS

The requirements of the project is given below.7

S.No.	Nature of requirement	Description
1	Water requirement	Total water requirement of 2.0 KLD which will be procured from the outside agencies. Out of 0.5 KLD drinking water requirements, Green belt development is 0.5 KLD and dust suppression is 1.0 KLD.
2	Power requirement	No electricity is needed for mining operations, for

		office demands, it will be met from the state grid. Total Fuel requirement is 2,96,680 (L) for entire life of the project.
3	Manpower requirement	Total Manpower - 32 Nos. Statutory persons – 19 Nos.
4	Financial requirement	The total project cost as per PFR will be INR 618.87 lakhs including Operational cost, Fixed Asset cost and EMP cost
5	Funds for Socio economic development	INR 3.0 Lakhs is allocated. In addition, any demand raised by people during public hearing will also be met.

11.1.5 DESCRIPTION OF LEASE AREA

The features in the study area is given below.

Table 11.1 Description of the lease area

S.No.	Areas	Distance from project site
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil within 15km radius
2	Areas which are important or sensitive for ecological reasons	
A	Wetlands, water courses or other water bodies,	500 m Radius: The Tank is situated at 260m on the South side of the lease applied area. There are no other Water bodies (River, Pond, Lake, Odai, Channel, etc.) within a radius of 500m. 500 m – 10 km radius Tank – 620m (SE), Maruthadi Eri-1.35Km (SW), Therani Big Lake-4.16Km(SE), Nanthai River – 4.3 km (S)
B	Coastal zone, biospheres,	Nil within 10km radius
C	Mountains, forests	Naranamangalam R.F – 4.07 km (NW), Maniyankurichi R.F – 7.39Mkm (SW), Maramareddi palaiyam R.F. – 9.27 km

		(SW), Velur R.F – 7.38 km (NW) & Siruvachur R.F –7.28 km (NW)
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, overwintering, migration	Nil within 15km radius
4	Inland, coastal, marine or underground waters	Nil within 15km radius
5	State, National boundaries	Nil within 15km radius
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	Nil within 15km radius
7	Defense installations	Nil within 15km radius
8	Densely populated or built-up area	Padalur west – 1.2 km (SE)
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Padalur west – 1.2 km (SE)
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Nil
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	Nil
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earth quakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects	No. The area is not prone to earthquakes, floods, etc.

The baseline data collection for meteorology, air, water, noise and soil environments have been carried out during March 2025 to May 2025.

Air, water, noise and soil samples are collected and analyzed through NABL accredited lab.

11.2 EXPLANATION OF HOW ADVERSE EFFECTS HAVE BEEN MITIGATED

11.2.1 AIR ENVIRONMENT

The air monitoring has been carried out in 7 locations and the results are given below.

Table 11.2: Details Of Ambient Air Quality Monitoring Locations

S. No.	Station Code	Locations	Coordinates
1	AAQ 1	Mine Lease Area	11° 6'51.07"N & 78°50'50.58"E
2	AAQ 2	Sridevi Mangalam	11° 6'45.19"N & 78°48'6.12"E
3	AAQ 3	Near Therani Big Lake	11° 6'47.20"N & 78°52'9.17"E
4	AAQ 4	Padalur West	11° 5'41.47"N & 78°49'45.65"E
5	AAQ 5	Alathur	11° 7'36.71"N & 78°50'15.75"E
6	AAQ 6	Pudhukkurichi	11° 8'5.47"N & 78°51'53.17"E
7	AAQ 7	Padalur	11° 6'17.30"N & 78°50'41.19"E

All the values of pollutant concentrations were found to be within the NAAQs Standards.

Station ID	Min	Max	Avg.
Particulate matter PM-$_{2.5}$ (µg/m^3)			
AAQ-1	25.9	36.7	31.5
AAQ-2	22.4	28.6	25.6
AAQ-3	21.0	26.7	23.4
AAQ-4	21.8	29.4	25.3
AAQ-5	19.3	24.7	22.0
AAQ-6	21.0	27.1	23.7
AAQ-7	20.2	25.4	22.4
CPCB NAAQS 2009 for PM $_{2.5}$ - 60 µg/m^3			
Particulate matter PM-$_{10}$ (µg/m^3)			
AAQ-1	53.9	76.5	47
AAQ-2	46.7	59.5	53.4
AAQ-3	45.7	56.5	49.8
AAQ-4	47.8	59.1	53.4
AAQ-5	41.0	51.3	45.7
AAQ-6	44.3	57.2	50.0
AAQ-7	42.3	53.3	47.0
CPCB NAAQS 2009 for PM $_{10}$ - 100 µg/m^3			

Sulphur Di-oxide as SO_2 (µg/m³)			
AAQ-1	5.6	8.1	6.8
AAQ-2	5.8	8.2	7.0
AAQ-3	5.9	8.2	7.1
AAQ-4	4.2	6.6	5.4
AAQ-5	3.6	6.2	4.9
AAQ-6	3.8	5.5	4.8
AAQ-7	3.6	5.7	4.6
CPCB NAAQS 2009 for SO_2 – 80 µg/m³			
Oxide of Nitrogen as NO_2 (µg/m³)			
AAQ-1	11.3	13.5	12.5
AAQ-2	8.9	11.0	10.0
AAQ-3	9.2	11.8	10.5
AAQ-4	8.6	10.9	9.8
AAQ-5	7.8	10.1	9.0
AAQ-6	6.2	8.5	7.3
AAQ-7	6.9	9.2	8.1
CPCB NAAQS 2009 for NO_2 – 80 µg/m³			

11.2.2 WATER ENVIRONMENT

S.No	Parameter	Unit	SW1	SW2	SW3
1	Odour	-	Agreeable	Agreeable	Agreeable
2	Turbidity	NTU	<1	<1.0	<1.0
3	pH at 25 °C	-	7.52	7.94	7.85
4	Electrical Conductivity	µs/cm	218.6	167.9	192.3
5	Total Dissolved Solids	mg/l	132	102	115
6	Total hardness as $CaCO_3$	mg/l	47.2	35.2	42.5
7	Calcium as Ca	mg/l	10.56	10.36	9.8
8	Magnesium as Mg	mg/l	4.99	2.23	4.3
9	Calcium as $CaCO_3$	mg/l	26.4	25.9	24.5
10	Magnesium as $CaCO_3$	mg/l	20.8	9.30	18.0
11	Total alkalinity as $CaCO_3$	mg/l	45.6	37.2	42.2
12	Chloride as Cl^-	mg/l	42.8	40.8	39.8
13	Free Residual chlorine as Cl^-	mg/l	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)
14	Sulphates as SO_4^{2-}	mg/l	15.2	16.9	16.1
15	Iron as Fe	mg/l	0.15	0.12	0.1
16	Nitrate as NO_3	mg/l	BDL(D.L-	2.14	1.95

			1.0)		
17	Fluoride as F	mg/l	0.21	0.45	0.42
18	Manganese as Mn	mg/l	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)
19	COD	mg/l	BDL(D.L-4.0)	BDL(D.L-4.0)	BDL(D.L-4.0)
20	BOD	mg/l	BDL(D.L-2.0)	BDL(D.L-2.0)	BDL(D.L-2.0)
21	TSS	mg/l	22.0	12.0	10.0
22	DO	mg/l	5.8	6.1	6.3

Table 11.4 Results of Ground Water sampling Analysis in 7 locations

Parameter	W1	W2	W3	W4	W5	W6	W7
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable
Turbidity	<1	<1.0	<1.0	<1	<1	<1	<1
pH at 25 °C	7.92	7.84	7.19	7.91	7.45	7.77	7.36
Electrical Conductivity	532.5	1665	1975.0	2068.0	1286.0	1989.0	2137.0
Total Dissolved Solids	320	1002	1186	1240	772	1194	1282
Total hardness as CaCO3	180	354	392	424	235	385	454
Calcium as Ca	44.8	64.4	84	96.8	57.6	83.2	102
Magnesium as Mg	16.3	46.3	43.7	43.7	21.8	42.5	47.5
Calcium as CaCO3	112	161	210	242	144	208	256
Magnesium as CaCO3	68.0	193	182	182	91.0	177	198
Total alkalinity as CaCO3	162	327	380	399	260	376	392
Chloride as Cl-	76.9	342	365	380	241	363	510
Free Residual chlorine as Cl-	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)	BDL(D.L-0.2)
Sulphates as SO42-	55.8	270	342	355	206	338	212
Iron as Fe	0.05	0.12	0.11	0.12	0.04	BDL(D.L-0.01)	0.03
Nitrate as NO3	BDL(D.L-1.0)	2.14	4.65	5.23	4.32	5.62	5.51
Fluoride as F	0.21	0.48	0.55	0.62	0.42	0.63	0.58
Manganese as Mn	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-0.05)	BDL(D.L-	BDL(D.L-

						0.05)	0.05)

All the values were found to be within permissible limits

11.2.3 NOISE ENVIRONMENT

Noise levels were measured in 5 locations and the results are given below.

Table 11.5 Noise monitoring results

S. No	Location	Day equivalent	Night equivalent	Day equivalent limits by CPCB	Night equivalent limits by CPCB
1	Mine Lease Area	50.8	38.3	75	70
2	Sridevi Mangalam	50.0	38.3		
3	Near Therani Big Lake	49.1	41.9		
4	Padalur West	47.9	41.1		
5	Alathur	45.1	37.5		
6	Pudhukkurichi	49.4	43.3		
7	Padalur	50.8	39.2		

11.2.4 SOIL ENVIRONMENT

Soil samples are collected from 6 locations and the results are given below.

S. No	Parameter	Unit	S1	S2	S3	S4	S5	S6	S7
1	pH at 25 °C	-	7.42	7.94	8.06	7.95	7.89	8.12	7.92
2	Electrical Conductivity	µmhos /cm	192.2	290.8	220.4	273.5	190.2	295.6	265.7
3	Dry matter content	%	96.29	96.52	97.21	86.54	97.25	93.67	92.58
4	Water Content	%	3.71	3.48	2.79	13.46	2.75	6.33	7.42
5	Organic Matter	%	0.84	0.95	0.82	1.32	0.77	0.95	1.03
6	Soil texture	-	Silty Clay loam	Silty Clay	Silty Clay	Clay	Silty Clay	Silty Clay	Silty Clay
7	Grain Size Distribution								
	i. Sand		15.76	10.42	8.55	17.05	13.22	10.79	7.89
8	ii. Silt	%	45.57	44.33	42.75	38.97	42.76	45.66	41.32

9	iii. Clay	%	38.67	45.25	48.7	43.98	44.02	43.55	50.79
10	Phosphorous as P	mg/kg	1.31	1.62	1.24	1.67	1.36	1.61	1.74
11	Sodium as Na	mg/kg	302	322	346	498	535	420	396
12	Potassium as K	mg/kg	574	664	735	904	1030	634	652
13	Nitrogen and Nitregenous Compounds	mg/kg	270	405	146	205	254	312	175
14	Total Soluble Sulphate	%	BDL(D. L.0.02)	BDL(D. L.0.02)	BDL(D. L.0.02)	BDL(D. L.0.02)	BDL(D. L.0.02)	BDL(D. L.0.02)	BDL(D. L.0.02)
15	Water Holding Capacity	Inches /foot	38	38	40	41	42	40	42
16	Porosity	%	19.4	19.4	17.9	17.1	18.9	18.2	17.3

11.2.5 BIOLOGICAL ENVIRONMENT

FLORA

For measuring the extent of flora present in the study area, the area is divided in to 4 quadrants. The flora population in each quadrant is summed up for the total population in the study area. Field survey is done. Erukku, Aavarai and Nayuruvi are found in lease area. In the buffer zone, common trees like Neem, papaya, mango, teak, etc and shrubs like Avarai, Aloe vera, etc, climbers like Kovai,jasmine etc are found.

FAUNA

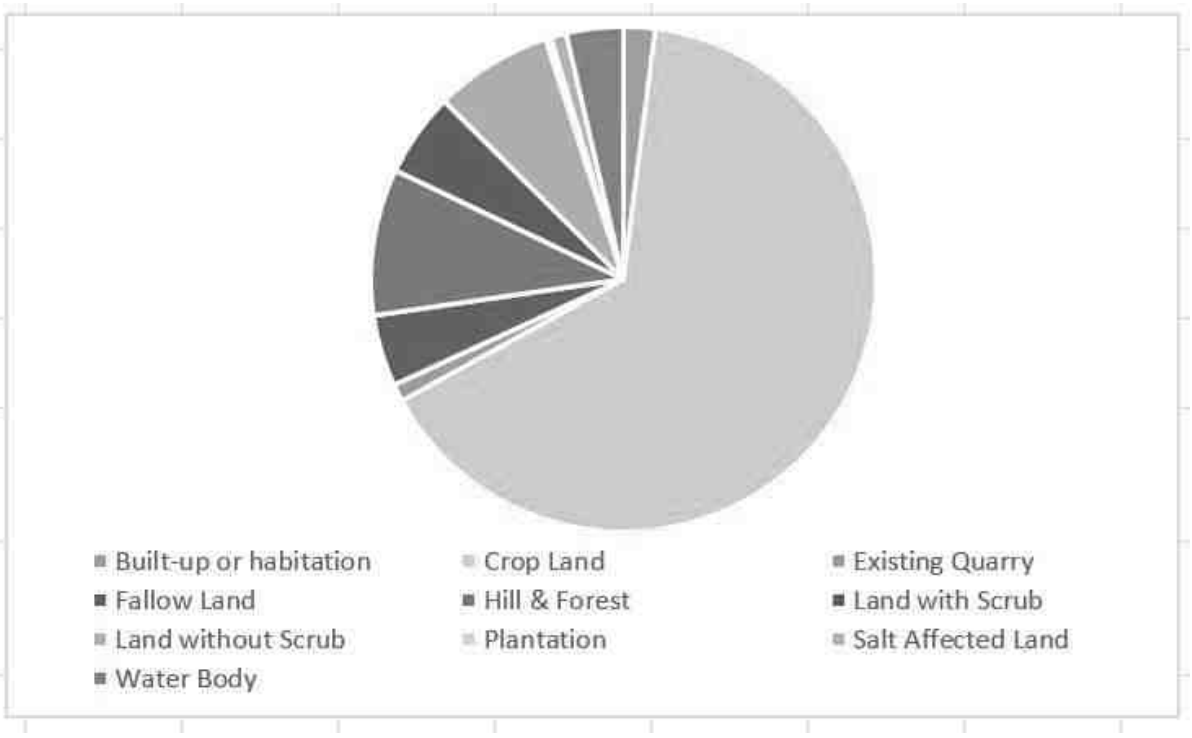
In the study area, commonly found animals like dogs, cats, bush rat, cows, birds like crow, Myna, Sparrow, etc were found.

11.2.6 LAND USE

The land use land cover data is found using the LANDSAT – 9 satellite imagery. The number of bands used are 11. The land use pattern is given below:

Major Land Use Units of the Study Area in Percentage

S. No	1st Level Classification	Area in (sq.km)	Percentage (%)
1	Built-up or habitation	6.45	2.02
2	Crop Land	207.27	64.98
3	Existing Quarry	3.55	1.11
4	Fallow Land	14.6	4.57
5	Hill & Forest	29.97	9.39
6	Land with Scrub	17.12	5.36
7	Land without Scrub	24.1	7.55
8	Plantation	1.1	0.39
9	Salt Affected Land	3.19	1.00
10	Water Body	11.6	3.63
Total		**318.95**	**100.0**



11.2.7 SOCIO ECONOMIC ENVIRONMENT

The socio-economic environment of the study area is studied by conducting primary sites through site visits and conducting sample surveys. The secondary data obtained from Census 2011 is also used.

The following data area collected from secondary data.

- Demographic pattern.
- Health pattern
- Occupational structure.
- Amenities available.

The expert visited some villages in the study area namely Tiruvilakkurichi, Tirani, Padalur, Ammankovil Colony, Uttatur, Nedungur, Ukkalur, Pudukkurichi, Karai, Alattur, Nattarmangalamlrur, Kuttanur & Sidevimangalam Villages. Discussions were held with the people from nearby locality to study the social and economic conditions prevailing in the area. The expert also visited nearby hospitals and primary health centres. The following observations were made.

Primary schools are available in many villages. For hospital facilities, people in the locality have to go to hospital in Padalur which is about 1.2 km (SE) from the lease area. Major schools with higher secondary and senior secondary schools are located in Padalur. The major Padalur Union located in the area is Perambalur. Facilities like petrol pump stations, ATM facility are available in Padalur.

11.2.8 HYDROGEOLOGY OF THE LEASE AREA

There are two tanks located in the study area, which are mostly dry throughout the year. These tanks get water only during monsoons. The factors may be monsoon failure, insufficient rainfall, poor rain water management and water consuming patterns.

11.2.9 GROUND WATER STUDY

For Ground water study, satellite imagery is used. Water levels from monitoring levels are collected through imaging. The pre-monsoon and post-monsoon data are collected and the results are analyzed.

During field visit, it is observed that water is available in wells only after monsoon. The yield is obtained at deep levels only.

As far as the mining lease area is considered, the area is rocky and no major seepage is envisaged. The production quantity is very less and the depth proposed is 81 m (61m above ground level and 20m below ground level). Hence, there will not be any major impact due to mining on water levels or ground water levels in the area.

11.3 ANTICIPATED ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

Environmental impacts on the following environments are identified.

- Land environment
- Water environment
- Vegetation
- Fauna
- Air environment
- Noise environment
- Socio-economic impacts

12.3.1 LAND ENVIRONMENT: IMPACT AND MITIGATION MEASURES

The major impact due to this project on land environment is the change in land use. Since this quarry is a small one and the production is less, mining activity will be carried out upto 81 m (61m above ground level and 20m below ground level). Other than quarrying of minerals, no other change will be done since there is no dumping. To prevent soil erosion during monsoon season, garland drain will be constructed with silt traps. At the mine closure stage, 0.95.00 Ha of lease area will

be left as rain water harvesting pond. 0.43.00 Ha will be developed with green belt. For this, plants like Pongamia pinnata, Syzigium cumini, Albizia lebbeck, Thespesia populnea, Bauhinia racemose, Cassia siamea, Azadirachta indiaca are selected. A total of 430 trees are planned to be planted. Spacing will be 3m x 3m.

12.3.2 WATER ENVIRONMENT: IMPACT AND MITIGATION MEASURES

There is no water body present inside the lease area. The entire water requirement for the project is 2.0 KLD which will be sourced from outside agencies. Negligible sewage will be generated, for which a septic tank with soak pit will be set up.

During monsoon season, the excess rain water, if any, will be led through garland drain of 0.6m width and 0.3 m depth to the collection pond with silt traps.

Since the mining operation will be limited upto depth of 81m (61m above ground level and 20m below ground level), there will not be any seepage. However, the rain water percolation and collection of water from seepage shall be less than 300lpm and it shall be pumped out periodically by a stand by diesel powered Centrifugal pump motivated with 7.5 H.P. Motor. The quality of water is expected to be potable. Hence, water stored in the quarry pit will be pumped into the adjacent agricultural fields. Further the water can also be used for plantation purposes

Since these water bodies are located outside the lease area and there is no discharge of effluent or any untreated water from the mines will be made in to these water bodies, there is no major impact. For the canal, adequate safety distance is left. The proponent will restrict the mining operation only within the lease and no other work will be carried out near the canal or any area outside the lease.

It is planned to carryout appropriate rainwater harvesting schemes and artificial recharge schemes in the area.

- Rain water falling in the quarry will be collected efficiently through garland drains.
- Water thus collected will be passed through collection tank with silt traps.

This water can be used by the proponent for water sprinkling and for green belt purposes.

- Excess water after desiltation will be provided to downstream users, if any.

11.3.3 BIOLOGICAL ENVIRONMENT: IMPACT AND MITIGATION MEASURES

Impacts

- Fauna is affected due to noise and vibration.
- Dust generation due to mining activities
- Change in land use of the lease area
- Accidental falling of animals

Mitigation measures

- Sirens will be blown before blasting in the mines. To reduce noise levels, plantation will be done. Blasting will be carried out only in the allotted time.
- To reduce dust generation, mist sprayers will be used. During transportation, the material will be covered with tarpaulin. Water sprinkling will be done to reduce generation of pollutants
- After the mine closure stage, the mine pit will be left as rain water collecting tank, which can attract bird population in the nearby areas.
- To prevent entry of animals, the mining area will be properly fenced.

11.3.4 AIR ENVIRONMENT: IMPACT AND MITIGATION MEASURES

The major air pollutants due to mining operations are fugitive emissions like PM_{10}, $PM_{2.5}$. Other than these pollutants, gaseous emissions of sulfur dioxide (SO_2) and oxides of nitrogen (NO_x) due to excavation/loading equipment and vehicles plying on haul roads are the cause of air pollution in the project area.

The major impacts are Dust emission due to drilling, blasting and transportation. The major mitigation measures include Using Wet drilling methods, Allowing drilling only with PPE, Carrying out blasting only during specified times, Avoiding blasting

during unfavourable weather conditions, Using explosives of good quality, Using mist sprayers Regular wetting of transport, Covering the materials carried in tippers with tarpaulin, Proper maintenance of vehicles used for transportation, Conducting regular emission tests for vehicles used for transport Development of greenbelt is proposed in the safety zone 7.5m barriers in the lease area.

The anticipated data is calculated using AERMOD software and the projected values are found to be within limits.

11.3.5 NOISE ENVIRONMENT: IMPACT AND MITIGATION MEASURES

Impacts

- Noise generation in mining is due to operation like drilling, blasting and transportation of minerals within and outside the lease area.
- As per DGMS (Directorate General of Mines Safety) and OSHA (Occupational Safety and Health Administration) limits, the acceptable noise level is 85 dB(A) for an exposure period of 8 hours.
- Exposure to loud noise can also cause high blood pressure, heart disease, sleep disturbances, and stress. Noise pollution also impacts the health and well-being of wildlife.
- Noise exceeding prescribed limits may cause impairment like abnormal loudness perception, tinnitus, which causes a persistent high-pitched ringing in the ears, paracusis or distorted hearing

Mitigation measures

- As the distance between the source and receptor increases, the noise level also decreases. Hence, there will be a natural attenuation
- The proposed has planned to develop green belt in the periphery of the lease area, which diminishes sound volume by dampening them.
- All the equipment/machinery/trucks involved will be properly maintained to control noise generation
- Conducting regular health checkups for employees involved

- Employees will be made to work on shifts to reduce their exposure time
- Providing earplugs to all employees

By adopting these measures, the noise levels will be maintained well within MoEFCC limits since the baseline value is low.

11.3.6 VIBRATION: IMPACT AND MITIGATION MEASURES

Impacts

- Though vibration will be only felt by the people working inside the lease area, it is usually undesired.
- Vibration may also cause flyrocks
- It may frighten the birds and small insects in the lease area. However, it will be felt only for a short period

Mitigation measures

- Carrying out blasting on limited scale, only from 12:00 PM to 2:00 PM
- Control of fly rock and vibration by maintaining peak particle velocity with in standard as prescribed by the DGMS and MOEF & CC.
- Shallow depths jackhammer drilling and blasting is proposed to be carried out with minimum use of explosive
- Supervising blasting by competent and statutory foreman/ mines manager

11.3.7 SOCIO ECONOMIC ENVIRONMENT

Impact and Mitigation measures

No land is acquired from anyone. No rehabilitation is needed. Hence, there is no negative impact. The proponent has planned to spend INR 3,00,000 for CER activities. This amount will be subjected to change after public hearing.

11.3.8 OCCUPATIONAL HEALTH

Impacts

Dust generation due to drilling and blasting, Noise generation due to drilling and blasting, unexpected accidents. Continuous exposure to dust causes Pneumonia, Tuberculosis, Rhematic arthritis and Segmental Vibration, Short term impact will be lack of sleep, high blood pressure and heart ailments. Long term exposure may lead to partial or permanent deafness, Risks include fly rocks, cracks or fissures due to improper mining methods

Mitigation measures

- Using dust suppression measures like water spraying on roads to reduce rise of air pollutants
- Providing green belt for air pollutant and noise attenuation
- Ensuring slope stability
- Employing only trained professionals for blasting
- Conducting Pre-Medical Examination for employees before inducting
- Conducting periodical Medical Examination once in 6 months.
- Making all first aid kits available in mines office
- Keeping fire extinguisher in place
- Educating the employees about how to handle unexpected happenings
- Posting information containing emergency contact numbers in mines office
- By adopting all these measures, the safety of the employees working in the quarry will be ensured.

11.3.9 ENVIRONMENTAL MONITORING PROGRAMME

Monitoring is done to measure the efficiency of control measures implemented. Regular monitoring of various environmental parameters like air, water, noise and soil environments is needed to assess the status of environment during the project operation. A schedule is framed with timeline to monitor various parameters during the operation of the project. To evaluate the effectiveness of environmental

management programme, regular monitoring of the important environmental parameters will be taken up. Air monitoring will be carried out once in 3 months, water sample will be collected once in a season, noise will be monitored once in 3 months, soil samples will be analyzed once per season. For EMP, a budget of INR 20.37 Lakhs is allocated.

11.3.10 PROJECT BENEFITS

Financial benefits

- This project will contribute financially through payment of taxes like royalty, GST, etc
- The project will also contribute via CSR.
- The demands of people during public hearing will also be considered by the project proponent

Social benefits

- This project provides employment to 32 Nos. Local people will be hired for unskilled labour.
- Through CSR, nearby schools, hospitals will be benefitted.
- For CSR, INR 3,00,000 is allocated.
- Based on the demand of the people during public hearing, further funds will be allocated, if necessary.

Various aspects of mining activities were considered and related impacts were evaluated. Considering all the possible ways to mitigate the environmental concerns Environmental Management Plan was prepared and 20.37 lakhs for the five years has been allocated as EMP cost. The EMP is dynamic, flexible and subjected to periodic review. For project where the major environmental impacts are associated, EMP will be under regular review. Thus, the proper steps will be taken to accomplish all the goals mentioned in the EMP and the project will bring the positive impact in the study area.

CHAPTER 12

DISCLOSURE OF CONSULTANTS

Global Mining Solutions is a NABET Accredited EIA consultant as per NABET certificate NABET/EIA/23-26/SA 0241. The registered office of Global Mining Solutions is at Plot No.6, S.F.No.13/2 A2, VS City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamilnadu-636455.

Declaration by Experts contributing to the proposed Rough Stone Quarry over an extent 1.40.00 Ha, while total cluster area of 13.43.74 Ha at Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State. (ToR Identification No. - TO25B0108TN5887407N, Dated: 25.09.2025).

I, hereby, certify that I was a part of the EIA team that developed the above EIA.

EIA Coordinator Name: M. Manikandan

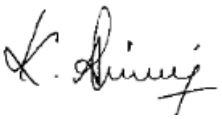
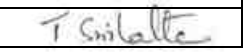


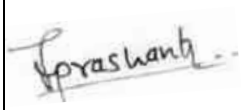
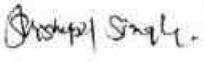
Signature & Date

Period of involvement: March 2025 to May 2025.

Contact information:

M/s Global Mining Solutions
Plot No.6, SF No. 13/2, A2, VS City, RC Chettypatty,
Kottamettupatty, Omalur,
Salem, Tamil Nadu – 636 455

S. No.	Functional areas	Name of the expert/s	Involvement (period and task**)	Signature and Date
1	*AP*	*Dhanalakshmi Ramanathan*	*Assessment of existing air quality, Impact of the project on ambient air and suggested mitigation measures for air pollution.* *Period: March 2025 to May 2025.*	
2	*WP*	*Abirami Kaliaperumal*	*Assessment of existing water quality, impact of the project on surface and ground water quality, suggested mitigation measures for minimizing the impact.* *Period: March 2025 to May 2025*	
3	*SHW*	*Ramadoss N*	*Assessment of waste generated from the project, suggested waste management practices.* *Period: March 2025 to May 2025*	
4	*SE*	*Sarasvathy K*	*Baseline SE studies. Data compilation and assessment. Impact of the project on SE status of the area. Formulation of CER plan.* *Period: March 2025 to May 2025*	
5	*EB*	*Saravanan S*	*Baseline data collection of related to ecology of the area.* *Period: March 2025 to May 2025*	
6	*HG*	*Ravinthiran N*	*Hydrogeological feature of the area. Ground water depth and impact of project on ground water of the area.* *Period: March 2025 to May 2025*	
7	*AQ*	*Srilatha*	*Air quality modeling utilizing*	

		Thiruveedhula	*the area source model. Predication of the ground level concentration of the dust. Suggesting suitable mitigation measures.* *Period: March 2025 to May 2025*	
8	*NV*	*Dhanalakshmi Ramanathan*	*Ambient noise study of the area. Incremental noise generation due to quarry operation and impact of the noise due to the project.* *Period: March 2025 to May 2025*	
9	*LU*	*Srilatha Thiruveedhula*	*Preparation of land use map based on satellite imagery. Land use classification and analysis. Impact prediction of the project on the surrounding land environment.* *Period: March 2025 to May 2025*	
10	*RH*	*S.V. Prashant*	*Identification of the Risk related to the mining activities. Preparation of emergency disaster management plan. Plan for supply of safety equipment for the worker.* *Period: March 2024 to May 2024*	
11	*SC*	*Shisupal Sing*	*Soil monitoring, secondary data collection on soil type, soil management practices, utilization of topsoil.* *Period: March 2025 to May 2025*	
12	*GEO*	*Valliappan Meyyappan*	*Geological map, stability of quarry and dump, management plan for mine stability, after use of mining quarry and geological feature of the area.* *Period: March 2025 to May 2025*	

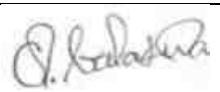
TM- EC

S.No	*Name of TM (EC)*	*Sector(s) proposed*	*Approved (to work under)*	*Period of involvement*	*Type of work*	*Signature*
1.	*Abirami*	*1*	*Manikandan Manickam*	*Period: March to May 2025.*	*Associated with EIA Coordinator in overall preparation of Draft EIA/EMP report.*	

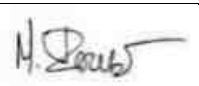
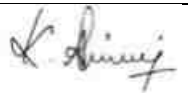
TM- FAE:

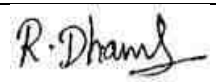
S. No	**Name of TM (FAE)**	**Functional Area**	**Approved FAE (to work under)**	**Period of involvement**	**Type of work**	**Signature**
1	Kamaraj S	LU	Srilatha Thiruveedhula	Period: March to May 2025	Associated with Experts in preparing Land use map based on satellite imagery, Land use classification and analysis, Impact prediction on surrounding land environment.	

		HG	Ashok Kumar Rajagopal	*Period: March to May 2025.*	Associated with Experts in studying hydrogeological pattern of study area, Studying ground water and the impact of the project on ground water	
2	B.J.Sampatkkumar	SE	Saraswathy K	*Period: March to May 2025.*	Assisted by the Expert in preparation of socio-economic report.	
		SC	Shishupal Singh	*Period: March to May 2025.*	Assisted by the Expert in interpretation of soil sampling and their quality involved in the project.	
3	Mownica Balaji	NV	Dhanalakshmi Ramanathan	*Period: March to May 2025.*	Associated with the expert team in suggesting control measures for noise and Ground Vibration.	Mownica.B
		AP	Dhanalakshmi Ramanathan		Associated with expert team in assessing existing air quality, impact of the project on	

					ambient air and suggesting mitigation measures for air pollution	
4	Balasubramani G	NV	Dhanalakshmi Ramanathan	*Period: March to May 2025.*	Associated with the expert in selection of base line monitoring stations, Review of Noise quality results, Review of emission sources – drilling, blasting, excavation and transportation, Identification of impacts on environment, identification of remedial measures and input to EIA preparation	
		Geo	Valliappan Meyyappan		Associated with the expert in preparing Geological map.	
5	Suresh Mani	LU	Srilatha Thiruveedhula	*Period: March to May 2025.*	Associated with Experts in preparing Land use map based on satellite imagery, Land use classification and	

					analysis, Impact prediction on surrounding land environment.	
		HG	Ashok Kumar Rajagopal		Associated with Experts in studying hydro-geology pattern of study area, studying water and the impact of the project on ground water.	
6	Asan Ali S	NV	Srilatha Thiruveedhula	*Period: March to May 2025.*	Associated with the expert in monitoring and analysis of blast induced ground vibration in order to develop the site-specific equation for its prediction, monitoring of fly rocks & air blast (noise), preparation of SOP's for the safety blasting practice in the mines.	S. Asan ali
		Geo	Valliappan Meyyappan		Associated with the Qualified Person & Experts in preparing	

					Geological map, assessing stability of quarry slope faces and dump, management plan for mine stability and after use of mining quarry and geological features of the area during mine plan preparation.	
7	Prabu M	Geo	Valliappan Meyyappan	*Period: March to May 2025.*	Associated with Experts and involved in Field Investigations, Mapping /Geo-referencing	
8	Abirami Kaliyaperumal	RH	S V Prashant	*Period: March to May 2025.*	Associated with experts and involved in the identification risk and hazard, suggesting safeguard measures.	

9	Dhanalakshmi Ramanathan	AQ	Srilatha Thiruveedhula	*Period: March to May 2025*	Involved with Expert team and involved in calculating air emission values using Meteorological data and Providing inputs for running modelling (ISCT3, AERMOD).	
10	Manikandan Manickam	AP	Ramadoss N	*Period: March to May 2025.*	Associated with expert team in assessing existing air quality, impact of the project on ambient air and suggesting mitigation measures for air pollution	
		WP	Abirami Kaliyaperumal		Involved in the identification of source of water and waste generation, suggesting treatment for safe disposal of wastewater	

ANNEXURE-1

File No: 12469
Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA), TAMIL NADU)
***

Dated **25/09/2025**

To,

Thiru. P. VELMURUGAN
No.1, Royal Mahalakshmi Nagar,Virudhachalam,Cuddalore – 606001. TAMIL NADU.
veluvri1971@gmail.com

Subject: Grant of Terms of Reference along with Public Hearing under the provision of the EIA Notification 2006-regarding.

Sir/Madam,

Sub: SEIAA-TN Proposed Rough Stone quarry lease over an extent of 1.40.0 Ha at S.F.No. 10/1 (Block-3) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu by **Thiru. P. Velmurugan -** under project category – "B1" and Schedule S.No.1(a) "Mining of Minerals Projects" of EIA Notification, 2006, as amended **– ToR issued along with Public Hearing -** preparation of EIA report – Regarding.

Ref: 1. Online proposal No. SIA/TN/MIN/544501/2025, Dated: 11/07/2025.
2. Your application submitted for Terms of Reference dated: 18.07.2025.
3. Minutes of the 609th SEAC meeting held on 26.08.2025
4. Minutes of the 888th SEIAA meeting held on 17.09.2025.

2. The particulars of the proposal are as below :

(i) TOR Identification No.	TO25B0108TN5887407N
(ii) File No.	12469
(iii) Clearance Type	TOR
(iv) Category	B1
(v) Project/Activity Included Schedule No.	1(a) Mining of minerals
(vii) Name of Project	PROPOSED ROUGHSTONE QUARRY OF THIRU.P.VELMURUGAN
(viii) Name of Company/Organization	P VELMURUGAN
(ix) Location of Project (District, State)	PERAMBALUR, TAMIL NADU
(x) Issuing Authority	SEIAA
(xi) Applicability of General Conditions	no
(xii) Applicability of Specific Conditions	no

1.In view of the particulars given in the Para 1 above, the project proposal interalia including Form-1(Part A and B) were submitted to the SEIAA for an appraisal by the SEAC under the provision of EIA notification 2006 and its subsequent amendments.

2.The above-mentioned proposal has been considered by SEIAA in the meeting held on 17.09.2025. The minutes of the meeting and all the Application and documents submitted [viz. Form-1 Part A, Part B] are available on PARIVESH portal which can be accessed by scanning the QR Code above.

3.The State Expert Appraisal Committee (SEAC), based on the information & clarifications provided by the project proponent and after detailed deliberations on all technical aspects recommended the proposal for grant of Terms of Reference with public hearing under the provision of EIA Notification, 2006 and as amended thereof subject to the stipulation of specific and general conditions as detailed in Annexure (2).

4.The SEIAA has examined the proposal in accordance with the Environment Impact Assessment (EIA) Notification, 2006 & further amendments thereto and after accepting the recommendations of the SEAC hereby decided to issue the following Terms of Reference with public hearing for instant proposal of **Thiru. P. Velmurugan** under the provisions of EIA Notification, 2006 and as amended thereof.

5.The Ministry/SEIAA-TN reserves the right to stipulate additional conditions, if found necessary.

6.The Terms of Reference with public hearing to the aforementioned project is under provisions of EIA Notification, 2006. It does not tantamount to approvals/consent/permissions etc. required to be obtained under any other Act/Rule/regulation. The Project Proponent is under obligation to obtain approvals /clearances under any other Acts/ Regulations or Statutes, as applicable, to the project.

7.This issues with the approval of the Competent Authority.

8.The TORs with public hearing prescribed shall be valid for a period of three years from the date of issue, for submission of the EIA/EMP report as per OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August, 2017.

Copy To

1. The Additional Chief Secretary to Government, Environment & Forests Department, Govt. of Tamil Nadu, Fort St. George, Chennai - 9
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
3. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600 032.
4. Monitoring Cell, IA Division, Ministry of Environment, Forests &CC, Paryavaran Bhavan, CGO Complex, New Delhi 110003
5. The District Collector, Perambalur District.
6. Stock File.

Annexure 1

Specific Terms of Reference for (Mining Of Minerals)

1. Seac Conditions - Site Specific

S. No	Terms of Reference
1.1	**Major Condition:** **1. The PP shall furnish modified MP incorporating benches on all the sides along with EIA Report.** **Specific Condition:** 1. **A Cluster Management Committee (CMC) shall be constituted including all the mines in the cluster as Committee Members for the effective management of the mining operation in the cluster through systematic & scientific approach with appointment of statutory personnel, appropriate environmental monitoring, good maintenance of haul roads and village/panchayat roads, authorized blasting operation etc. The PP shall submit the following details in the form of an Affidavit during the EIA appraisal:**

S. No	Terms of Reference
	(i) Copy of the agreement forming CMC. **(ii) The Organisation chart of the Committee with defining the role of the members** **(iii) The 'Standard Operating Procedures' (SoP) executing the planned activities**. 2. The PP should submit an affidavit to follow the scientific formation of benches for 5m *5m properly during mining as per the approved mining plan. 3. The PP shall install the CCTV camera for the continuous surveillance of mining activity & furnish the photographic/videographic evidence along with the EIA report.

2. Seac Standard Conditions

S. No	Terms of Reference
2.1	1. In the case of existing/operating mines, a letter obtained from the concerned AD (Mines) shall be submitted and it shall include the following: (i) Original pit dimension (ii) Quantity achieved Vs EC Approved Quantity (iii) Balance Quantity as per Mineable Reserve calculated. (iv) Mined out Depth as on date Vs EC Permitted depth (v) Details of illegal/illicit mining (vi) Violation in the quarry during the past working. (vii) Quantity of material mined out outside the mine lease area (viii) Condition of Safety zone/benches (ix) Revised/Modified Mining Plan showing the benches of not exceeding 6 m height and ultimate depth of not exceeding 50m. 2. Details of habitations around the proposed mining area and latest VAO certificate regarding the location of habitations within 300m radius from the periphery of the site. 3. The proponent is requested to carry out a survey and enumerate on the structures located within the radius of (i) 50 m, (ii) 100 m, (iii) 200 m and (iv) 300 m (v) 500m shall be enumerated with details such as dwelling houses with number of occupants, whether it belongs to the owner (or) not, places of worship, industries, factories, sheds, etc with indicating the owner of the building, nature of construction, age of the building, number of residents, their profession and income, etc. 4. The PP shall submit a detailed hydrological report indicating the impact of proposed quarrying operations on the waterbodies like lake, water tanks, etc are located within 1 km of the proposed quarry. 5. The Proponent shall carry out Bio diversity study through reputed Institution and the same shall be included in EIA Report. 6. The DFO letter stating that the proximity distance of Reserve Forests, Protected Areas, Sanctuaries, Tiger reserve etc., up to a radius of 25 km from the proposed site. 7. In the case of proposed lease in an existing (or old) quarry where the benches are not formed (or) partially formed as per the approved Mining Plan, the Project Proponent (PP) shall the PP shall carry out the scientific studies to assess the slope stability of the working benches to be constructed and existing quarry wall, by involving any one of the reputed Research and Academic Institutions - CSIR-Central Institute of Mining & Fuel Research / Dhanbad, NIRM/Bangalore, Division of Geotechnical Engineering-IIT-Madras, NIT-Dept of Mining Engg, Surathkal, and Anna University Chennai-CEG Campus. The PP shall submit a copy of the aforesaid report indicating the stability status of the quarry wall and possible mitigation measures during the time of appraisal for obtaining the EC. 8. However, in case of the fresh/virgin quarries, the Proponent shall submit a conceptual 'Slope Stability Plan' for the proposed quarry during the appraisal while obtaining the EC, when the depth of the working is extended beyond 30 m below ground level. 9. The PP shall furnish the affidavit stating that the blasting operation in the proposed quarry is

S. No	Terms of Reference
	carried out by the statutory competent person as per the MMR 1961 such as blaster, mining mate, mine foreman, II/I Class mines manager appointed by the proponent. 10. The PP shall present a conceptual design for carrying out only controlled blasting operation involving line drilling and muffle blasting in the proposed quarry such that the blast-induced ground vibrations are controlled as well as no fly rock travel beyond 30 m from the blast site. 11. The EIA Coordinators shall obtain and furnish the details of quarry/quarries operated by the proponent in the past, either in the same location or elsewhere in the State with video and photographic evidences. 12. If the proponent has already carried out the mining activity in the proposed mining lease area after 15.01.2016, then the proponent shall furnish the following details from AD/DD, mines, 13. What was the period of the operation and stoppage of the earlier mines with last work permit issued by the AD/DD mines? 14. Quantity of minerals mined out. · Highest production achieved in any one year · Detail of approved depth of mining. · Actual depth of the mining achieved earlier. · Name of the person already mined in that leases area. · If EC and CTO already obtained, the copy of the same shall be submitted. · Whether the mining was carried out as per the approved mine plan (or EC if issued) with stipulated benches. 15. All corner coordinates of the mine lease area, superimposed on a High-Resolution Imagery/Topo sheet, topographic sheet, geomorphology, lithology and geology of the mining lease area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone). 16. The PP shall carry out Drone video survey covering the cluster, green belt, fencing, etc., 17. The proponent shall furnish photographs of adequate fencing, green belt along the periphery including replantation of existing trees & safety distance between the adjacent quarries & water bodies nearby provided as per the approved mining plan. 18. The Project Proponent shall provide the details of mineral reserves and mineable reserves, planned production capacity, proposed working methodology with justifications, the anticipated impacts of the mining operations on the surrounding environment, and the remedial measures for the same. 19. The Project Proponent shall provide the Organization chart indicating the appointment of various statutory officials and other competent persons to be appointed as per the provisions of the Mines Act'1952 and the MMR, 1961 for carrying out the quarrying operations scientifically and systematically in order to ensure safety and to protect the environment. 20. The Project Proponent shall conduct the hydro-geological study considering the contour map of the water table detailing the number of groundwater pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds, etc. within 1 km (radius) along with the collected water level data for both monsoon and non-monsoon seasons from the PWD / TWAD so as to assess the impacts on the wells due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. 21. The proponent shall furnish the baseline data for the environmental and ecological parameters with regard to surface water/ground water quality, air quality, soil quality & flora/fauna including traffic/vehicular movement study. 22. The Proponent shall carry out the Cumulative impact study due to mining operations carried out in the quarry specifically with reference to the specific environment in terms of soil health, biodiversity, air pollution, water pollution, climate change and flood control & health impacts. Accordingly, the Environment Management plan should be prepared keeping the concerned quarry and the surrounding habitations in the mind. 23. Rain water harvesting management with recharging details along with water balance (both

S. No	Terms of Reference
	monsoon & non-monsoon) be submitted. 24. Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given. 25. Details of the land for storage of Overburden/Waste Dumps (or) Rejects outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be provided. 26. Proximity to Areas declared as 'Critically Polluted' (or) the Project areas which attracts the court restrictions for mining operations, should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the TNPCB (or) Dept. of Geology and Mining should be secured and furnished to the effect that the proposed mining activities could be considered. 27. Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided. 28. Impact on local transport infrastructure due to the Project should be indicated. 29. A tree survey study shall be carried out (nos., name of the species, age, diameter etc.,) both within the mining lease applied area & 300m buffer zone and its management during mining activity. 30. A detailed mine closure plan for the proposed project shall be included in EIA/EMP report which should be site-specific. 31. As a part of the study of flora and fauna around the vicinity of the proposed site, the EIA coordinator shall strive to educate the local students on the importance of preserving local flora and fauna by involving them in the study, wherever possible. 32. The purpose of Green belt around the project is to capture the fugitive emissions, carbon sequestration and to attenuate the noise generated, in addition to improving the aesthetics. A wide range of indigenous plant species should be planted as given in the appendix-I in consultation with the DFO, State Agriculture University. The plant species with dense/moderate canopy of native origin should be chosen. Species of small/medium/tall trees alternating with shrubs should be planted in a mixed manner. 33. Taller/one year old Saplings raised in appropriate size of bags, preferably ecofriendly bags should be planted as per the advice of local forest authorities/botanist/Horticulturist with regard to site specific choices. The proponent shall earmark the greenbelt area with GPS coordinates all along the boundary of the project site with at least 3 meters wide and in between blocks in an organized manner 34. A Disaster management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period. 35. A Risk Assessment and management Plan shall be prepared and included in the EIA/EMP Report for the complete life of the proposed quarry (or) till the end of the lease period. 36. Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed. 37. Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations. 38. The Socio-economic studies should be carried out within a 5 km buffer zone from the mining activity. Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation. 39. Details of litigation pending against the project, if any, with direction /order passed by any

S. No	Terms of Reference
	Court of Law against the Project should be given. 40. Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc. 41. If any quarrying operations were carried out in the proposed quarrying site for which now the EC is sought, the Project Proponent shall furnish the detailed compliance to EC conditions given in the previous EC with the site photographs which shall duly be certified by MoEF&CC, Regional Office, Chennai (or) the concerned DEE/TNPCB. 42. The PP shall prepare the EMP for the entire life of mine and also furnish the sworn affidavit stating to abide the EMP for the entire life of mine. 43. Concealing any factual information or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this Terms of Conditions besides attracting penal provisions in the Environment (Protection) Act, 1986.

3. Seiaa Specific Conditions :

S. No	Terms of Reference
3.1	The authority noted that the subject was placed in the **609th** SEAC-I meeting held on **26.08.2025**. After detailed discussions, the Authority accepts the recommendation of SEAC-I and decided to grant **Terms of Reference (ToR) along with Public Hearing for the quantity of 3,70,850 m^3 of Rough Stone up to the depth of 81m (61m Above Ground Level And 20m Below Ground Level)** as per the approved mining plan, under cluster for undertaking the combined Environment Impact Assessment Study and preparation of separate Environment Management Plan subject to the conditions as recommended by SEAC-I & normal conditions & the SEIAA Standard conditions.

4. Seiaa Standard Conditions :

S. No	Terms of Reference
4.1	**<u>Cluster Management Committee</u>** 1. Cluster Management Committee shall be framed which must include all the proponents in the cluster as members including the existing as well as proposed quarry. 2. The members must coordinate among themselves for the effective implementation of EMP as committed including Green Belt Development, Water sprinkling, tree plantation, blasting etc., 3. The List of members of the committee formed shall be submitted to AD/Mines before the execution of mining lease and the same shall be updated every year to the AD/Mines. 4. Detailed Operational Plan must be submitted which must include the blasting frequency with respect to the nearby quarry situated in the cluster, the usage of haul roads by the individual quarry in the form of route map and network. 5. The committee shall deliberate on risk & emergency management plan, fire safety & evacuation plan and sustainable development goals pertaining to the cluster in a holistic manner especially during natural calamities like intense rain and the mitigation measures considering the inundation of the cluster and evacuation plan. 6. The Cluster Management Committee shall form Environmental Policy to practice sustainable mining in a scientific and systematic manner in accordance with the law. The role played by the committee in implementing the Environmental policy devised shall be given in detail in the EIA Report. 7. The committee shall furnish action plan regarding the restoration strategy with respect to the individual quarry falling under the cluster in a holistic manner. 8. The committee shall deliberate on the health of the workers/staff involved in the mining as well

S. No	Terms of Reference
	as the health of the public in the vicinity. **Agriculture & Agro-Biodiversity** 9. Impact on surrounding agricultural fields around the proposed mining Area. 10. Impact on soil flora & vegetation around the project site. 11. Details of type of vegetation including no. of trees & shrubs within the proposed mining area and. If so, transplantation of such vegetation all along the boundary of the proposed mining area shall committed mentioned in EMP. 12. The Environmental Impact Assessment should study the agro-biodiversity, agro- forestry, horti-cultural plantations, the natural ecosystem, the soil micro flora, fauna and soil seed banks and suggest measures to maintain the natural Ecosystem. 13. Action should specifically suggest for sustainable management of the area and restoration of ecosystem for flow of goods and services. 14. The project proponent shall study and furnish the impact of project on plantations in adjoining patta lands, Horticulture, Agriculture and livestock. **Forests** 15. The project proponent shall detailed study on impact of mining on Reserve forests and free ranging wildlife. 16. The Environmental Impact Assessment should study impact on forest, vegetation, endemic, vulnerable and endangered indigenous flora and fauna. 17. The Environmental Impact Assessment should study impact on standing trees and the existing trees should be numbered and action suggested for protection. 18. The Environmental Impact Assessment should study impact on protected areas, Reserve Forests, National Parks, Corridors and Wildlife pathways, near project site. **Water Environment** 19. Hydro-geological study considering the contour map of the water table detailing the number of ground water pumping & open wells, and surface water bodies such as rivers, tanks, canals, ponds etc. within 1 km (radius) so as to assess the impacts on the nearby waterbodies due to mining activity. Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided, covering the entire mine lease period. 20. Erosion Control measures. 21. Detailed study shall be carried out in regard to impact of mining around the proposed mine lease area on the nearby Villages, Water-bodies/ Rivers, & any ecological fragile areas. 22. The project proponent shall study impact on fish habitats and the food WEB/ food chain in the water body and Reservoir. 23. The project proponent shall study and furnish the details on potential fragmentation impact on natural Environment, by the activities. 24. The project proponent shall study and furnish the impact on aquatic plants and animals in water bodies and possible scars on the landscape, damages to nearby caves, heritage site, and archaeological sites possible land form changes visual and aesthetic impacts. 25. The Terms of Reference should specifically study impact on soil health, soil erosion, the soil physical, chemical components and microbial components. 26. The Environmental Impact Assessment should study on wetlands, water bodies, rivers streams, lakes and farmer sites. 27. The EIA shall include the impact of mining activity on the following: a) Hydrothermal/Geothermal effect due to destruction in the Environment. b) Bio-geochemical processes and its foot prints including Environmental stress. c) Sediment geochemistry in the surface streams. **Energy** 28. The measures taken to control Noise, Air, Water, Dust Control and steps adopted to efficiently utilise the Energy shall be furnished. **Climate Change**

S. No	Terms of Reference
	29. The Environmental Impact Assessment shall study in detail the carbon emission and also suggest the measures to mitigate carbon emission including development of carbon sinks and temperature reduction including control of other emission and climate mitigation activities. 30. The Environmental Impact Assessment should study impact on climate change, temperature rise, pollution and above soil & below soil carbon stock, soil health and physical, chemical & biological soil features. 31. Impact of mining on pollution leading to GHGs emissions and the impact of the same on the local livelihood. **Mine Closure Plan** 32. Detailed Mine Closure Plan covering the entire mine lease period as per precise area communication order issued. **EMP** 33. Detailed Environment Management Plan along with adaptation, mitigation & remedial strategies covering the entire mine lease period as per precise area communication order issued and the scope for achieving SDGs. 34. The Environmental Impact Assessment should hold detailed study on EMP with budget for Green belt development and mine closure plan including disaster management plan. **Risk Assessment** 35. To furnish risk assessment and management plan including anticipated vulnerabilities during operational and post operational phases of Mining. **Disaster Management Plan** 36. To furnish disaster management plan and disaster mitigation measures in regard to all aspects to avoid/reduce vulnerability to hazards & to cope with disaster/untoward accidents in & around the proposed mine lease area due to the proposed method of mining activity & its related activities covering the entire mine lease period as per precise area communication order issued. **Others** 37. The project proponent shall furnish VAO certificate with reference to 300m radius regard to approved habitations, schools, Archaeological sites, Structures, railway lines, roads, water bodies such as streams, odai, vaari, canal, channel, river, lake pond, tank etc. 38. As per the MoEF& CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall address the concerns raised during the public consultation and all the activities proposed shall be part of the Environment Management Plan. 39. The project proponent shall study and furnish the possible pollution due to plastic and microplastic on the Environment. The ecological risks and impacts of plastic & microplastics on aquatic Environment and fresh water systems due to activities, contemplated during mining may be investigated and reported.

Standard Terms of Reference for (Mining of minerals)

1.

S. No	Terms of Reference
1.1	Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994
1.2	A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given

S. No	Terms of Reference
1.3	All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee
1.4	All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ toposheet, topographic sheet, geomorphology and geology of the areashould be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone)
1.5	Information should be provided in Survey of India Toposheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics
1.6	Details about the land proposed for mining activities should be givenwith information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority
1.7	It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/ violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large,may also be detailed in the EIA Report
1.8	Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The proposed safeguard measures in each case should also be provided
1.9	The study rea will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period
1.10	Land use of the study rea delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given
1.11	Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given
1.12	A Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the State Expert Appraisal Committees

S. No	Terms of Reference
1.13	Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of net present value (NPV) and compensatory afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished
1.14	Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated
1.15	The vegetation in the RF / PF areas in the study area, with necessary details, should be given
1.16	A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted
1.17	Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from the Standing Committee of National Board of Wildlifeand copy furnished
1.18	A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled- I fauna found in the study area, the necessary plan alongwith budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost
1.19	Proximity to Areas declared as Critically Polluted or the Project areas likely to come under the Aravali Range, (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Dept. Should be secured and furnished to the effect that the proposed mining activities could be considered
1.20	Similarly, for coastal Projects, A CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease w.r.t CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority)
1.21	R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report

S. No	Terms of Reference
1.22	One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season) ; December-February (winter season)]primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given
1.23	Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map
1.24	The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated
1.25	Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided
1.26	Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided
1.27	Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided
1.28	Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from State Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished
1.29	Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out
1.30	Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same
1.31	A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given.The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local

S. No	Terms of Reference
	and native species and the species which are tolerant to pollution
1.32	Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines
1.33	Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report
1.34	Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report
1.35	Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed
1.36	Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations
1.37	Measures of socio economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation
1.38	Detailed environmental management plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the proposed Project
1.39	Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project
1.40	Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given
1.41	The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out
1.42	A Disaster management Plan shall be prepared and included in the EIA/EMP Report
1.43	Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc
1.44	Besides the above, the below mentioned general points are also to be followed:- a) All documents to be properly referenced with index and continuous page numbering. b) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should

S. No	Terms of Reference
	be indicated. c) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project. d) Where the documents provided are in a language other than English, an English translation should be provided. e) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted. f) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed. g) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the TOR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation. h) As per the circular no. J-11011/618/2010-IA.II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the environment clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable. i) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area

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e-Payments
e-Processing

STANDARD TERMS OF REFERENCE

1) Year-wise production details since 1994 should be given, clearly stating the highest production achieved in any one year prior to 1994. It may also be categorically informed whether there had been any increase in production after the EIA Notification 1994 came into force, w.r.t. the highest production achieved prior to 1994.
2) A copy of the document in support of the fact that the Proponent is the rightful lessee of the mine should be given.
3) All documents including approved mine plan, EIA and Public Hearing should be compatible with one another in terms of the mine lease area, production levels, waste generation and its management, mining technology etc. and should be in the name of the lessee.
4) All corner coordinates of the mine lease area, superimposed on a High Resolution Imagery/ topo sheet, topographic sheet, geomorphology and geology of the area should be provided. Such an Imagery of the proposed area should clearly show the land use and other ecological features of the study area (core and buffer zone).
5) Information should be provided in Survey of India Topo sheet in 1:50,000 scale indicating geological map of the area, geomorphology of land forms of the area, existing minerals and mining history of the area, important water bodies, streams and rivers and soil characteristics.
6) Details about the land proposed for mining activities should be given with information as to whether mining conforms to the land use policy of the State; land diversion for mining should have approval from State land use board or the concerned authority.
7) It should be clearly stated whether the proponent Company has a well laid down Environment Policy approved by its Board of Directors? If so, it may be spelt out in the EIA Report with description of the prescribed operating process/procedures to bring into focus any infringement/deviation/violation of the environmental or forest norms/ conditions? The hierarchical system or administrative order of the Company to deal with the environmental issues and for ensuring compliance with the EC conditions may also be given. The system of reporting of non-compliances / violations of environmental norms to the Board of Directors of the Company and/or shareholders or stakeholders at large, may also be detailed in the EIA Report.
8) Issues relating to Mine Safety, including subsidence study in case of underground mining and slope study in case of open cast mining, blasting study etc. should be detailed. The

proposed safeguard measures in each case should also be provided.

9) The study area will comprise of 10 km zone around the mine lease from lease periphery and the data contained in the EIA such as waste generation etc. should be for the life of the mine / lease period.

10) Land use of the study area delineating forest area, agricultural land, grazing land, wildlife sanctuary, national park, migratory routes of fauna, water bodies, human settlements and other ecological features should be indicated. Land use plan of the mine lease area should be prepared to encompass preoperational, operational and post operational phases and submitted. Impact, if any, of change of land use should be given.

11) Details of the land for any Over Burden Dumps outside the mine lease, such as extent of land area, distance from mine lease, its land use, R&R issues, if any, should be given.

12) Certificate from the Competent Authority in the State Forest Department should be provided, confirming the involvement of forest land, if any, in the project area. In the event of any contrary claim by the Project Proponent regarding the status of forests, the site may be inspected by the State Forest Department along with the Regional Office of the Ministry to ascertain the status of forests, based on which, the Certificate in this regard as mentioned above be issued. In all such cases, it would be desirable for representative of the State Forest Department to assist the Expert Appraisal Committees.

13) Status of forestry clearance for the broken up area and virgin forestland involved in the Project including deposition of Net Present Value (NPV) and Compensatory Afforestation (CA) should be indicated. A copy of the forestry clearance should also be furnished.

14) Implementation status of recognition of forest rights under the Scheduled Tribes and other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006 should be indicated.

15) The vegetation in the RF / PF areas in the study area, with necessary details, should be given.

16) A study shall be got done to ascertain the impact of the Mining Project on wildlife of the study area and details furnished. Impact of the project on the wildlife in the surrounding and any other protected area and accordingly, detailed mitigative measures required, should be worked out with cost implications and submitted.

17) Location of National Parks, Sanctuaries, Biosphere Reserves, Wildlife Corridors, Ramsar site Tiger/ Elephant Reserves/(existing as well as proposed), if any, within 10 km of the mine lease should be clearly indicated, supported by a location map duly authenticated by Chief Wildlife Warden. Necessary clearance, as may be applicable to such projects due to proximity of the ecologically sensitive areas as mentioned above, should be obtained from

the Standing Committee of National Board of Wildlife and copy furnished.

18) A detailed biological study of the study area [core zone and buffer zone (10 km radius of the periphery of the mine lease)] shall be carried out. Details of flora and fauna, endangered, endemic and RET Species duly authenticated, separately for core and buffer zone should be furnished based on such primary field survey, clearly indicating the Schedule of the fauna present. In case of any scheduled-I fauna found in the study area, the necessary plan along with budgetary provisions for their conservation should be prepared in consultation with State Forest and Wildlife Department and details furnished. Necessary allocation of funds for implementing the same should be made as part of the project cost.

19) Proximity to Areas declared as 'Critically Polluted' or the Project areas likely to come under the 'Aravali Range', (attracting court restrictions for mining operations), should also be indicated and where so required, clearance certifications from the prescribed Authorities, such as the SPCB or State Mining Department should be secured and furnished to the effect that the proposed mining activities could be considered.

20) Similarly, for Coastal Projects, a CRZ map duly authenticated by one of the authorized agencies demarcating LTL. HTL, CRZ area, location of the mine lease with respect to CRZ, coastal features such as mangroves, if any, should be furnished. (Note: The Mining Projects falling under CRZ would also need to obtain approval of the concerned Coastal Zone Management Authority).

21) R&R Plan/compensation details for the Project Affected People (PAP) should be furnished. While preparing the R&R Plan, the relevant State/National Rehabilitation & Resettlement Policy should be kept in view. In respect of SCs /STs and other weaker sections of the society in the study area, a need based sample survey, family-wise, should be undertaken to assess their requirements, and action programmes prepared and submitted accordingly, integrating the sectoral programmes of line departments of the State Government. It may be clearly brought out whether the village(s) located in the mine lease area will be shifted or not. The issues relating to shifting of village(s) including their R&R and socio-economic aspects should be discussed in the Report.

22) One season (non-monsoon) [i.e. March-May (Summer Season); October-December (post monsoon season); December-February (winter season)] primary baseline data on ambient air quality as per CPCB Notification of 2009, water quality, noise level, soil and flora and fauna shall be collected and the AAQ and other data so compiled presented date-wise in the EIA and EMP Report. Site-specific meteorological data should also be collected. The

location of the monitoring stations should be such as to represent whole of the study area and justified keeping in view the pre-dominant downwind direction and location of sensitive receptors. There should be at least one monitoring station within 500 m of the mine lease in the pre-dominant downwind direction. The mineralogical composition of PM10, particularly for free silica, should be given.

23) Air quality modeling should be carried out for prediction of impact of the project on the air quality of the area. It should also take into account the impact of movement of Vehicles for transportation of mineral. The details of the model used and input parameters used for modeling should be provided. The air quality contours may be shown on a location map clearly indicating the location of the site, location of sensitive receptors, if any, and the habitation. The wind roses showing pre-dominant wind direction may also be indicated on the map.

24) The water requirement for the Project, its availability and source should be furnished. A detailed water balance should also be provided. Fresh water requirement for the Project should be indicated.

25) Necessary clearance from the Competent Authority for drawl of requisite quantity of water for the Project should be provided.

26) Description of water conservation measures proposed to be adopted in the Project should be given. Details of rainwater harvesting proposed in the Project, if any, should be provided.

27) Impact of the Project on the water quality, both surface and groundwater, should be assessed and necessary safeguard measures, if any required, should be provided.

28) Based on actual monitored data, it may clearly be shown whether working will intersect groundwater. Necessary data and documentation in this regard may be provided. In case the working will intersect groundwater table, a detailed Hydro Geological Study should be undertaken and Report furnished. The Report inter-alia, shall include details of the aquifers present and impact of mining activities on these aquifers. Necessary permission from Central Ground Water Authority for working below ground water and for pumping of ground water should also be obtained and copy furnished.

29) Details of any stream, seasonal or otherwise, passing through the lease area and modification / diversion proposed, if any, and the impact of the same on the hydrology should be brought out.

30) Information on site elevation, working depth, groundwater table etc. Should be provided both in AMSL and bgl. A schematic diagram may also be provided for the same.

31) A time bound Progressive Greenbelt Development Plan shall be prepared in a tabular form (indicating the linear and quantitative coverage, plant species and time frame) and submitted, keeping in mind, the same will have to be executed up front on commencement of the Project. Phase-wise plan of plantation and compensatory afforestation should be charted clearly indicating the area to be covered under plantation and the species to be planted. The details of plantation already done should be given. The plant species selected for green belt should have greater ecological value and should be of good utility value to the local population with emphasis on local and native species and the species which are tolerant to pollution.

32) Impact on local transport infrastructure due to the Project should be indicated. Projected increase in truck traffic as a result of the Project in the present road network (including those outside the Project area) should be worked out, indicating whether it is capable of handling the incremental load. Arrangement for improving the infrastructure, if contemplated (including action to be taken by other agencies such as State Government) should be covered. Project Proponent shall conduct Impact of Transportation study as per Indian Road Congress Guidelines.

33) Details of the onsite shelter and facilities to be provided to the mine workers should be included in the EIA Report.

34) Conceptual post mining land use and Reclamation and Restoration of mined out areas (with plans and with adequate number of sections) should be given in the EIA report.

35) Occupational Health impacts of the Project should be anticipated and the proposed preventive measures spelt out in detail. Details of pre-placement medical examination and periodical medical examination schedules should be incorporated in the EMP. The project specific occupational health mitigation measures with required facilities proposed in the mining area may be detailed.

36) Public health implications of the Project and related activities for the population in the impact zone should be systematically evaluated and the proposed remedial measures should be detailed along with budgetary allocations.

37) Measures of socio-economic significance and influence to the local community proposed to be provided by the Project Proponent should be indicated. As far as possible, quantitative dimensions may be given with time frames for implementation.

38) Detailed Environmental Management Plan (EMP) to mitigate the environmental impacts which, should inter-alia include the impacts of change of land use, loss of agricultural and grazing land, if any, occupational health impacts besides other impacts specific to the

proposed Project.

39) Public Hearing points raised and commitment of the Project Proponent on the same along with time bound Action Plan with budgetary provisions to implement the same should be provided and also incorporated in the final EIA/EMP Report of the Project.

40) Details of litigation pending against the project, if any, with direction /order passed by any Court of Law against the Project should be given.

41) The cost of the Project (capital cost and recurring cost) as well as the cost towards implementation of EMP should be clearly spelt out.

42) A Disaster management Plan shall be prepared and included in the EIA/EMP Report.

43) Benefits of the Project if the Project is implemented should be spelt out. The benefits of the Project shall clearly indicate environmental, social, economic, employment potential, etc.

44) Besides the above, the below mentioned general points are also to be followed: -

a) Executive Summary of the EIA/EMP Report

b) All documents to be properly referenced with index and continuous page numbering.

c) Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.

d) Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.

e) Where the documents provided are in a language other than English, an English translation should be provided.

f) The Questionnaire for environmental appraisal of mining projects as devised earlier by the Ministry shall also be filled and submitted.

g) While preparing the EIA report, the instructions for the Proponents and instructions for the Consultants issued by MoEF&CC vide O.M. No. J-11013/41/2006-IA.II(I) dated 4th August, 2009, which are available on the website of this Ministry, should be followed.

h) Changes, if any made in the basic scope and project parameters (as submitted in Form-I and the PFR for securing the TOR) should be brought to the attention of MoEF&CC with reasons for such changes and permission should be sought, as the ToR may also have to be altered. Post Public Hearing changes in structure and content of the draft EIA/EMP (other than modifications arising out of the P.H. process) will entail conducting the PH again with the revised documentation.

i) As per the circular no. J-11011/618/2010-IA. II(I) dated 30.5.2012, certified report of the status of compliance of the conditions stipulated in the Environment Clearance for the existing operations of the project, should be obtained from the Regional Office of Ministry of Environment, Forest and Climate Change, as may be applicable.

j) The EIA report should also include (i) surface plan of the area indicating contours of main topographic features, drainage and mining area, (ii) geological maps and sections and (iii) sections of the mine pit and external dumps, if any, clearly showing the land features of the adjoining area.

In addition to the above, the following shall be furnished: -

The Executive summary of the EIA/EMP report in about 8-10 pages should be prepared incorporating the information on following points:

1. Project name and location (Village, District, State, Industrial Estate (if applicable).
2. Process description in brief, specifically indicating the gaseous emission, liquid effluent and solid and hazardous wastes.
3. Measures for mitigating the impact on the environment and mode of discharge or disposal.
4. Capital cost of the project, estimated time of completion.
5. The proponent shall furnish the contour map of the water table detailing the number of wells located around the site and impacts on the wells due to mining activity.
6. A detailed study of the lithology of the mining lease area shall be furnished.
7. Details of village map, "A" register and FMB sketch shall be furnished.
8. Detailed mining closure plan for the proposed project approved by the Geology of Mining department shall be shall be submitted along with EIA report.
9. Obtain a letter /certificate from the Assistant Director of Geology and Mining standing that there is no other Minerals/resources like sand in the quarrying area within the approved depth of mining and below depth of mining and the same shall be furnished in the EIA report.
10. EIA report should strictly follow the Environmental Impact Assessment Guidance Manual for Mining of Minerals published February 2010.
11. Detail plan on rehabilitation and reclamation carried out for the stabilization and restoration of the mined areas.
12. The EIA study report shall include the surrounding mining activity, if any.
13. Modeling study for Air, Water and noise shall be carried out in this field and incremental

increase in the above study shall be substantiated with mitigation measures.

14. A study on the geological resources available shall be carried out and reported.
15. A specific study on agriculture & livelihood shall be carried out and reported.
16. Impact of soil erosion, soil physical chemical and biological property changes may be assumed.
17. Site selected for the project - Nature of land - Agricultural (single/double crop), barren, Govt./ private land, status of is acquisition, nearby (in 2-3 km.) water body, population, with in 10km other industries, forest, eco-sensitive zones, accessibility, (note - in case of industrial estate this information may not be necessary)
18. Baseline environmental data - air quality, surface and ground water quality, soil characteristic, flora and fauna, socio-economic condition of the nearby population
19. Identification of hazards in handling, processing and storage of hazardous material and safety system provided to mitigate the risk.
20. Likely impact of the project on air, water, land, flora-fauna and nearby population
21. Emergency preparedness plan in case of natural or in plant emergencies
22. Issues raised during public hearing (if applicable) and response given
23. CER plan with proposed expenditure.
24. Occupational Health Measures
25. Post project monitoring plan
26. The project proponent shall carry out detailed hydro geological study through intuitions/NABET Accredited agencies.
27. A detailed report on the green belt development already undertaken is to be furnished and also submit the proposal for green belt activities.
28. The proponent shall propose the suitable control measure to control the fugitive emissions during the operations of the mines.
29. A specific study should include impact on flora & fauna, disturbance to migratory pattern of animals.
30. Reserve funds should be earmarked for proper closure plan.
31. A detailed plan on plastic waste management shall be furnished. Further, the proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throw away plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986. In this connection, the project proponent has to furnish the action plan.

Besides the above, the below mentioned general points should also be followed:-

a. A note confirming compliance of the TOR, with cross referencing of the relevant sections / pages of the EIA report should be provided.

b. All documents may be properly referenced with index, page numbers and continuous page numbering.

c. Where data are presented in the report especially in tables, the period in which the data were collected and the sources should be indicated.

d. While preparing the EIA report, the instructions for the proponents and instructions for the consultants issued by MoEF& CC vide O.M. No. J-11013/41/2006-IA.II (I) dated 4th August, 2009, which are available on the website of this Ministry should also be followed.

e. The consultants involved in the preparation of EIA/EMP report after accreditation with Quality Council of India (QCI)/National Accreditation Board of Education and Training (NABET) would need to include a certificate in this regard in the EIA/EMP reports prepared by them and data provided by other organization/Laboratories including their status of approvals etc. In this regard circular no F. No.J -11013/77/2004-IA-II(I) dated 2nd December, 2009, 18th March 2010, 28th May 2010, 28th June 2010, 31st December 2010 & 30th September 2011 posted on the Ministry's website http://www.moef.nic.in/ may be referred.

- After preparing the EIA (as per the generic structure prescribed in Appendix-III of the EIA Notification, 2006) covering the above mentioned points, the proponent will take further necessary action for obtaining environmental clearance in accordance with the procedure prescribed under the EIA Notification, 2006.
- The final EIA report shall be submitted to the SEIAA, Tamil Nadu for obtaining Environmental Clearance.
- The TORs with public hearing prescribed shall be **valid for a period of three years** from the date of issue, for submission of the EIA/EMP report as per OMNo.J-11013/41/2006-IA-II(I)(part) dated 29th August, 2017.

Signed by
Rahul Nadh Anikkadu Reghunadhan
Date: 25-09-2025 19:00:27
Reason: Verified and signed

ANNEXURE-2

ANNEXURE I

Rc.No.125/G&M/2025, Dated:09.05.2025

Department of Geology & Mining
Collectorate,
Perambalur – 621212.

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

PRECISE AREA COMMUNICATION LETTER

Sub : Mines and Minerals - Perambalur District – Rough Stone - e-Tender cum auction conducted on 27.03.2025 under Tender ID:2025_CGAM_525779_1 – Thiru.P.Velmurugan (BID ID: 1275146) quoted highest Bid amount (H1) For the quarry listed in Serial Number 25 – Declared as H1 bidder – H1 Bid Amount remitted – Solvency Certificate submitted – Precise Area Communicated – Reg.

Ref:
1. G.O.(Ms).No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024
2. Perambalur District Gazette (Extraordinary) Notification No.1, dated:18.02.2025.
3. E-Tender published under Tender ID:2025_CGAM_525779_1 in Tamil Nadu Governmente-tender portal.
4. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.125/G&M/2025, dated:28.03.2025 (to remit 10% of highest bid amount)
5. Remittance challan No. 20250329001676 dated: 29.03.2025 submitted by Thiru.P.Velmurugan(BID ID:1275146).
6. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.125/G&M/2025, dated 01.04.2025 (to remit remaining 90% of the bid amount)
7. Remittance challan No. 20250430011255 dated.30.04.2025 submitted by Thiru.P.Velmurugan(BID ID:1275146).

******

I invite your attention to the references cited above

Notice Inviting Tender (NIT) was published vide Perambalur District Gazette Extraordinary Notification No.1, dated.18.02.2025, inviting applications for grant of rough stone quarry leases in Government poramboke lands in Perambalur District through e-Tender cum Auction. Online tender was published in Tamil Nadu Government e-tender portal (https://tntenders.gov.in/) under Tender ID: 2025_CGAM_525779_1 and e-Auction was conducted 27.03.2025 for bidders whos' bids were qualified technically and financially.

After Financial Evaluation, Thiru.P.Velmurugan(BID ID:1275146) was declared as H1 bidder for the quarry listed in Serial Number 25 of the Gazette as he quoted highest bid amount of Rs.5,14,00,000/- for the said quarry. The H1 bidder was directed to remit 10% of the Highest bid amount vide notice in the reference 4th cited and accordingly, the H1 bidder has remitted 10% of the bid amount to a sum of Rs. 51,40,000/- and submitted remittance challan No.20250329001580 dated:29.03.2025 to this office.

P. வேல்முருகன்

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Subsequently, Thiru.P.Velmurugan(BID ID:1275146) was directed to remit the remaining 90% of Highest bid amount after adjusting the Bid Security already paid by him within one month to Government head of account and to submit original remittance challan to this office. Accordingly, Thiru.P.Velmurugan(BID ID:1275146) has remitted Rs.4,40,84,769/-after deducting Rs. 21,75,231/-(the Bid Security amount already paid by the bidder) in Government account within one month and submitted remittance challans to this office.

The details of H1 Bidder for the quarry listed in Serial No.25 of the District Gazette, H1 Bid Amount offered and remittance of Bid amount by bidder are as follows.

1.	**Quarry Detail**	
	Serial No. in District Gazette No.01, dated 18.02.2025.	25
	Taluk	Alathur
	Village	Padalur (East)
	S.F.No.	10/1 Block 3
	Extent	1.40.0 Hectares
	Lease Period	5 Years
2.	**H1 Bidder, Bid Amount Remittance**	
	H1 Bidder	Thiru. P.Velmurugan (BID ID:1275146) No.1, Royal mahalakshmi Nagar, Virudhachalam, Cuddalore -606 001.
	H1 Bid Amount	Rs.5,14,00,000/-
	10% of H1 bid amount remitted	Rs. 51,40,000/- (Challan No. 20250329001676 dated: 29.03.2025)
	Bid Security (EMD) already remitted	Rs. 21,75,231/-
	90% of bid amount paid after adjusting Bid Security already paid	Rs. 4,40,84,769/- (Challan No. 20250430011255, dated.30.04.2025)

The H1 Bidder, Thiru.P.Velmurugan(BID ID:1275146) has remitted entire H1 Bid Amount of Rs.5,14,00,000/- in Government account within one month as per sub- rule 16 of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959

Therefore, in exercise of the powers conferred under sub rule 17(a) of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959, an extent of 1.40.0 hectares of Government land in S.F.No.10/1 Block 3 of Padalur (East) Village, Alathur Taluk, Perambalur District as notified in Serial Number.24 of the Perambalur District Gazette (Extraordinary) Notification No.1, dated: 18.02.2025 is hereby fixed as Precise Area for grant of permission to quarry Roughstone for a period of 5 years to Thiru. P.Velmurugan(BID ID:1275146), subject to the following conditions

P. வேலுமுருகன்

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

1. 10 meters safety distance should be left out for the adjacent Government lands.
2. The applicant shall not make any hindrance to the adjacent lands and public.
3. The applicant should submit approved Mining Plan, Environment Clearance and Consent to Establish (CTE) & Consent to Operate (CTO) issued by competent authorities for grant of quarrying lease in the subject area.

The applicant Thiru.P.Velmurugan (BID ID:1275146) is directed to submit draft Mining Plan for the above area within 90 days for the approval of the Assistant Director, Geology and Mining, Perambalur and to submit Environment Clearance obtained from SEIAA, Tamil Nadu and CTE & CTO issued by the Tamil Nadu Pollution Control Board subsequently for further process.

Encl: Map showing the proposal lease area.

09.5.25

Assistant Director,
Geology and Mining,
Perambalur.

To
Thiru.P.Velmurugan
(BID ID: 1275146)
No.1, Royal mahalakshmi Nagar,
Virudhachalam,
Cuddalore -606 001.

Copy to:

9/5/26

1. The Chairman,
   SEIAA Level Environment Impact Assessment Authority,
   Panagal Maligai, Saidapet,
   Chennai.
2. The Commissioner of Geology and Mining, Chennai-32.

P. வெல்முருகன்

ANNEXURE-3

From

Thiru D.Bernard, M.Sc.,
Assistant Director,
Geology and Mining,
Perambalur.

To

Thiru. P.Velmurugan
No.1, Royal mahalakshmi Nagar,
Virudhachalam,
Cuddalore -606 001.

Rc.No.125/G&M/2025, Dated:13.06.2025

Sir,

Sub: Mines and Minerals - Perambalur District – Rough Stone - e-Tender cum auction conducted for Roughstone quarries in Government lands - Thiru. P.Velmurugan quoted highest Bid amount (H1) For the quarry in S.F.No. 10/1 Block 3, OAE of 1.40.0 hectares in Padalur(East) Village, Alathur Taluk – Declared as H1 bidder – H1 Bid Amount remitted – Precise Area Communicated – Draft Mining Plan submitted for approval – Approved - Reg.

Ref:
1. G.O.(Ms). No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024
2. Perambalur District Gazette(Extraordinary) Notification No.1, dated:18.02.2025.
3. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.125/G&M/2025, dated: 28.03.2025
4. The Assistant Director, Geology and Mining, Perambalur Precise Area Communication letter Rc.No.125/G&M/2025, dated 02.05.2025.
5. Thiru. P.Velmurugan, letter dated.05.05.2025.

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Tender cum Auction for grant of Roughstone quarries in Government lands notified in Perambalur District Gazette Extraordinary Notification No.1, dated.18.02.2025 was conducted through online as per Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959.

Thiru. P.Velmurugan was declared as Highest Bidder for the quarry in S.F.No. 10/1 (Block 3) to an extent of 1.40.0 hectares in Padalur(East) Village, Alathur Taluk, Perambalur District and the lease period proposed for the subject quarry is 5 years. The Highest Bidder, Thiru. P.Velmurugan remitted entire highest bid amount and other statutory documents in time in accordance with rules and in the reference, 4th cited, precise area was communicated to him with a request to submit Mining Plan for the approval of the Assistant Director, Geology and Mining, Perambalur District and Environmental Clearance obtained from SEIAA for further process.

P. வேல்முருகன்

Accordingly, in the reference 5th cited, the successful bidder has submitted 3 copies of Draft Mining Plan prepared by Qualified Person for the above area. The draft Mining Plan submitted by Thiru. P.Velmurugan, has been scrutinized as per extant rules and guide lines / instructions issued by the Commissioner of Geology and Mining, Chennai in the letter Rc.No.3868/LC/2012 dated. 19.11.2012. The following observations were made in scrutiny.

a. 10-meter safety distance is earmarked for the adjoining Government lands.

b. The Geological reserve of Roughstone in the subject area has been assessed as 26,81,525 metric tonnes.

c. The mineable reserve has been computed as 10,19,837.50 metric tonnes of Roughstone up to a depth of 81m (61m AGL + 20m BGL)

d. The lease period of the subject Roughstone quarry is 5(five) years and it has been proposed for the production of 10,19,837.50 metric tonnes of Roughstone up to a depth of 81m (61m AGL + 20m BGL) in the mining plan in five years.

e. The depth of water table in the subject area is reported as 67m BGL and workable depth has been proposed to 81m (61m AGL + 20m BGL) in the mining plan. Hence, the quarrying operation will not affect the water table in the area.

f. Drilling and blasting using jack hammers and shot hole blasting are proposed. Small dia, 25mm slurry explosives are proposed to be used for shattering and heaving effect for removal and winning of Roughstone. No deep hole drilling or primary blasting is proposed.

g. It has been proposed to adopt controlled blasting measures for minimizing ground vibration and fly rocks.

h. Machineries like Tractor mounted compressor attached with Jack hammers, excavators with rock breaker attachment are proposed for quarrying operation. Tippers of 5/10 Tons capacity are proposed for transportation.

4) The Mining Plan is prepared in accordance with the guidelines / instructions issued and tallies with the field conditions. The special conditions imposed in the precise area communication letter have been incorporated in the Mining Plan. Therefore, the draft mining plan is hereby approved subject to the following conditions.

i. That the Mining Plan is approved without prejudice to any other laws applicable to the quarry area from time to ti0me whether made by the Central Government, State Government or any other authority.

ii. That the approval of the Mining Plan does not in any way imply the approval of the Government in terms of any other provisions of the Mines and

P. வேல்முருகன்

Minerals (Regulations and Development) Amendment Act 2015 or Mineral (other than Atomic and Hydrocarbon Energy Minerals) concession Rules 2016, or Tamil Nadu Minor Mineral Concession Rules, 1959 or any other laws including Forest (Conservation) Act 1980, Forest Conservation Rule, 1981, Environment Protection Act, 1980 and the rules made there under.

iii. That the Mining plan is approved without prejudice to any other order or directions from any court of competent jurisdiction.

iv. That the approval of Mining Plan does not confer any rights for the renewal of quarry lease.

v. The approval is valid up to the subsistence of the lease period only.

Encl: 2copies of approved Mining Plan.

13/06/25

Assistant Director,
Geology and Mining,
Perambalur.

Copy to:

1. The Chairman,
   SEIAA Level Environment Impact Assessment Authority,
   Panagal Maligai,
   Saidapet,
   Chennai.

13/6/25

2. The Commissioner of Geology and Mining, Chennai-32.

P. உலகநாதன்

APPROVAL MINING PLAN

MINING PLAN FOR PADALUR (EAST) ROUGH STONE QUARRY

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

(Prepared Under Rule 8, 41 & 42 of Tamil Nadu Minor Mineral Concession Rules, 1959)

LOCATION OF THE QUARRY LEASE APPLIED AREA

STATE	:	TAMIL NADU
DISTRICT	:	PERAMBALUR
TALUK	:	ALATHUR
VILLAGE	:	PADALUR (EAST)
S.F.NO	:	10/1 (BLOCK-3)
EXTENT	:	1.40.0Ha

FOR

APPLICANT

Thiru.P.Velmurugan,
No.1, Royal Mahalakshmi Nagar,
Virudhachalam,
Cuddalore – 606 001.

ECO-FRIENDLY

SUSTAINABILITY

SAFETY



PREPARED BY

C.Natarajan, M.Sc., M.Phil.,
Qualified Person
M/s. GLOBAL MINING SOLUTIONS
(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)
PLOT NO. 6, S.F.NO. 13/2, A2, VS CITY, RC CHETTYPATTY,
KOTTAMETTUPATTY,
OMALUR, SALEM, TAMIL NADU – 636 455
NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110
CONTACT: 97502 23535 & 94446 54520
Email: infoglobalmining@gmail.com, globalminingsolutionssalem@gmail.com



(PPE)

P. வெல்முருகன்

ASST. DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

P.Velmurugan,
No.1, Royal Mahalakshmi Nagar,
Virudhachalam,
Cuddalore – 606 001.

CONSENT LETTER FROM THE APPLICANT

The Mining Plan in respect of **Rough Stone** quarry over an extent of 1.40.0 Hectares of Government land in S.F.No.10/1 (Block-3) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State has been prepared by

C.Natarajan, M.Sc., M.Phil.,
Qualified Person

I request to the Assistant Director, Department of Geology and Mining, Perambalur District to make further correspondence regarding modifications of the Mining Plan with the said Qualified Person on this following address.

C.Natarajan, M.Sc., M.Phil.,
Qualified Person
M/s. GLOBAL MINING SOLUTIONS
(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)
Plot No. 6, S.F.No. 13/2, A2, VS City, RC Chettypatty,
Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455
NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110
Contact: 97502 23535 & 94446 54520

I hereby undertake that all modifications so made in the Mining Plan by the Qualified Person may be deemed to have been made with my knowledge and consent and shall be acceptable to me and binding on me in all respects.

Signature of the Applicant

P. வெல்முருகன்

P.Velmurugan

Place: Cuddalore
Date: 10.05.2025

P. வெல்முருகன்

P.Velmurugan,
No.1, Royal Mahalakshmi Nagar,
Virudhachalam,
Cuddalore – 606 001.

ASST. DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

DECLARATION

The Mining Plan in respect of **Rough Stone** quarry over an extent of 1.40.0 Hectares of Government land in S.F.No.10/1 (Block-3) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State has been prepared with my consultation and I have understood the contents and agree to implement the same in accordance with the Mining Laws.

Signature of the Applicant

P.வேல்முருகன்

P.Velmurugan

Place: Cuddalore
Date: 10.05.2025

P.வேல்முருகன்

C.Natarajan, M.Sc., M.Phil.,
Qualified Person
M/s. GLOBAL MINING SOLUTIONS
(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)
Plot No. 6, S.F.No. 13/2, A2, VS City, RC Chettypatty,
Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455
NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110
Contact: 97502 23535 & 94446 54520

CERTIFICATE

This is to certify that, the provisions of Minor Minerals Conservation and Development Rules, 2010 (MMCDR) have been observed in the Mining Plan for the grant of **Rough Stone** quarry lease over an extent of 1.40.0 Hectares of Government land in S.F.No.10/1 (Block-3) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State applied by Thiru.P.Velmurugan, for fresh quarry lease.

Wherever specific permission / exemptions / relaxations or approvals are required, the applicant will approach the concerned authorities of State and Central Governments for granting such permissions etc.

Certified
Signature of Qualified Person.

C.Natarajan, M.Sc., M.Phil.,
Qualified Person
C.NATARAJAN M.Sc.,M.Phil.,
Qualified Person

Place: Salem
Date: 12.05.2025

P. வேல்முருகன்

C.Natarajan, M.Sc., M.Phil.,
Qualified Person
M/s. GLOBAL MINING SOLUTIONS
(NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT)
Plot No. 6, S.F.No. 13/2, A2, VS City, RC Chettypatty,
Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455
NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110
Contact: 97502 23535 & 94446 54520

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

CERTIFICATE

Certified that, in preparation of Mining Plan for **Rough Stone** quarry over an extent of 1.40.0 Hectares of Government land in S.F.No.10/1 (Block-3) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State for Thiru.P.Velmurugan, covers all the provisions of Mines Act, Rules and Regulations etc. made there under and whenever specific permission are required, the applicant will approach the Director General of Mines Safety, Chennai. The standards prescribed by DGMS in respect of Mines Health will be strictly implemented.

Certified
Signature of Qualified Person.

C.Natarajan, M.Sc., M.Phil.,
Qualified Person
C.NATARAJAN M.Sc.,M.Phil.,
Qualified Person

Place: Salem
Date: 12.05.2025

P. வேல்முருகன்

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

CERTIFICATE

Certified that I, C.Natarajan, M/s. GLOBAL MINING SOLUTIONS (NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT) Plot No. 6, S.F.No. 13/2, A2, VS City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455 NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110. I am a Post graduate in Geology (M.Sc., Geology) from Annamalai university and more than five years of experience in mining Field.

Rule 15(1)(a) and (b) of Minerals (Other than Atomic, Hydro Carbons Energy Minerals) concession Rules 2016 stipulates the eligibility for preparing Mining Plans as *"(1)(a) a post graduate degree in Geology granted by a university established" and (1)(b) "Professional experience of five years of working in a supervisory capacity in the field of mining after obtaining the degree".* Since my qualification and experience are satisfied the Rule (1)(a) and (1)(b) of 15 of the Said Rules, I am eligible to prepare Mining Plans for both Major and Minor Minerals.

Accordingly I prepared this Mining Plan in respect of Rough Stone quarry lease applied for an extent of 1.40.0 Ha of (Government land) in S.F.No.10/1(Block-3) of Padalur (East) Village, Alathur Taluk, Perambalur District, by Thiru.P.Velmurugan, for a period of Five years. Since the Mining Plan is prepared as per the provisions contained in Rule 15(1) (a) and (b) of Minerals (Other than Atomic, Hydro Carbons Energy Minerals) concession Rules 2016, the same may be approved by the Competent Authority.

C.Natarajan, M.Sc., M.Phil.,
Qualified Person

C.NATARAJAN M.Sc.,M.Phil.,
Qualified Person

Place: Salem
Date: 12.05.2025

P. வேல்முருகன்

CONTENTS

S. No.	Description	Page No.
1.0	Introduction	1
2.0	General Information	4
3.0	Location	5
4.0	Geology and Mineral Reserves	7
5.0	Mining	12
6.0	Blasting	16
7.0	Mine Drainage	17
8.0	Other Permanent Structures	18
9.0	Employment Potentials &Welfare Measures	19
10.0	Environment Management Plan	21
11.0	Mine Closure Plan	24
12.0	Any Other Details Intend to furnish by the Applicant	25

P. தமிழ்மணி

ASST. DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

ANNEXURE

S. No.	Description	Annexure No.
1.0	Precise Area Communication letter issued by the Assistant Director, Department of Geology and Mining	I
2.0	Copy of Tender Document	IA
3.0	Copy of FMB	II
4.0	Copy of Village Map	III
5.0	Copy of Adangal	IV
6.0	Copy of A Register	V
7.0	Copy of Identity Proof	VI
8.0	Copy of QP Certificate	VII

LIST OF PLATES

S. No.	Description	Plate No.
1.0	Location Plan	I
2.0	Environmental Plan	I-A
3.0	Satellite imagery map	I-B
4.0	Topo sketch of Quarry lease applied area for 10Km Radius	I-C
5.0	Key Plan	I-D
6.0	Quarry lease & Surface plan	II
7.0	Topography, Geological plan and sections	III
8.0	Mineable plan and sections	IV
9.0	Year wise Development and Production Plan & Sections	V
10.0	Conceptual Plan & Sections	VI

P. தமிழ்மணி

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

MINING PLAN FOR MINOR MINERALS

ROUGH STONE

Over an extent of 1.40.0 Hectares of Government Land in S.F.No.10/1 (Block-3) of Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.

(PREPARED UNDER RULE 8, 41 and 42 OF TNMMCR 1959)

1.0 Introduction and Executive Summary;

1. The present Mining Plan is prepared for Thiru.P.Velmurugan, residing at No.1, Royal Mahalakshmi Nagar, Virudhachalam, Cuddalore – 606001.
2. The application was processed by the Assistant Director, Department of Geology and Mining, Perambalur and passed an order vide Rc.No.125/G&M/2025, Dated: 09.05.2025 directing the applicant to produce approved Mining Plan under Rule 41(5) of the Tamil Nadu Minor Mineral Concession Rules, 1959 and Environmental Clearance Certificate under Rule 42 from the State Level Environmental Impact Assessment Authority (SEIAA) for the grant of quarry lease to quarry Rough Stone over an extent of 1.40.0 Hectares of Government land in S.F.No. 10/1 (Block-3) of Padalur (East) Village, Alathur Taluk, Perambalur District of Tamil Nadu State for a period of five years.
3. Accordingly, Mining Plan is prepared under the provisions of rule 8, 41 and 42 as per the amendments under Tamil Nadu Minor Mineral Concession Rules, 1959 by incorporating following the conditions imposed in the precise area communication letter.
   a) 10 meter safety distance should be left out for the adjacent government lands.
   b) The applicant shall not make any hindrance to the adjacent lands and public.
   c) The applicant should submit approved mining plan, environment clearance and consent to establish (CTE) & consent to operate (CTO) issued by competent authorities for grant of quarrying lease in the subject area.
4. Geological Resources is estimated at 26,81,525Ts of Rough Stone and 29,540Ts of Topsoil and Mineable Reserves is estimated at 10,19,837.50Ts of Rough Stone and 20,000Ts of Topsoil and after leaving necessary safety distance from the lease boundary as indicated in the precise area letter and relevant mining laws in force.

P. வெல்முருகன்

5. The production Schedule is proposed production of 10,19,837.50Ts of Rough Stone and 20,000Ts of Topsoil for the period of five years.
6. The applicant ensured that, child labours under 18 years of age will not be engaged for quarrying operation.
7. The applicant ensure that will engage should have valid certified persons (Mines Manager, Foreman, Mate) during quarrying operation.
8. Environmental parameters,
   - i) The area does not attract the Forest Conservation Act, 1980 as there is no forest around 3.2Km radius.
   - ii) There is no interstate boundary around 10kms radius.
   - iii) There is no wild life animal sanctuary within 10Kms radius from the project site area under the Wildlife (Protection) Act, 1972.

   Therefore the project seeks clearance only from State Level Environmental Impact Assessment Authority (SEIAA).
9. Environmental measures to be adopted shall be,
   - i) Dust Control at source while drilling and blasting,
   - ii) Dust suppression at loading point and transport haul roads,
   - iii) Noise Control in blasting, control of fly rock missiles and vibration by doing peak particle velocity with in standard as prescribed by the DGMS and MOEF.
   - iv) Unnecessary land degradation should be avoided or damaged land should be reclaimed or rehabilitated.
   - v) Avoid uneven rat hole mining and follow scientific and systematic mining by safe bench system of open cast mining.
   - vi) Mining near major fracture zones if any should be avoided to control ground water fluctuation in the adjacent agricultural lands.
   - vii) Emission test of vehicles should be in tack to maintain minimum emission level of flue gases.
   - viii) Noise level should not exceed 80db and the vehicles should use only permitted Air Horn while on road near residential areas.
   - ix) Safety zones as prescribed by the Department of Geology and Mining from adjacent infrastructures should be strictly adhere to.
   - x) And any other conditions as stipulated by the concerned authorities should be followed to protect the environment.

P. முருகேசன்

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EXECUTIVE SUMMARY:

a.	Name of the Village Panchayat	:	Padalur (East)
b.	Name of the Panchayat Union	:	Alathur
c.	The proposed total Minable Reserves	:	10,19,837.50Ts of Rough Stone 20,000Ts of Topsoil
d.	The proposed quantity of reserves (level of production) for Five years to be mined is (Recoverable reserves)	:	10,19,837.50Ts of Rough Stone 20,000Ts of Topsoil
e.	Total extent of the area	:	1.40.0Ha
f.	Proposed Period of mining	:	Five Years
g.	Existing depth	:	6m (above ground level).
h.	Proposed Depth of mining	:	81m (61m above ground level and 20m below ground level) for the proposed mining plan.
i.	Method of mining/level of mechanization	:	Opencast, Semi-mechanized Mining with a bench height of 5m and bench width of 5m proposed.
j.	Types of Machineries used in the quarry	:	Machineries like Tractor mounted compressor attached with Jack hammers, Excavators are proposed to deploy for quarrying operation.
k.	Cost of the Project A. Fixed Assets Cost B. Operational Cost C. EMP Cost		Rs.5,14,00,000/- Rs. 81,50,000/- Rs. 5,50,000/- Total Project cost(A+B+C)=**Rs. 6,01,00,000/**

l. The area applied for lease is bounded by four corners and the coordinates are clearly marked in plate no II.

Corners	Co- ordinates		Distance between the corners
	Latitude	Longitude	
1	11° 06' 57.09"N	78° 50' 26.79"E	1-2 = 200.0m
2	11° 06' 58.07"N	78° 50' 33.31"E	2-3 = 70.0m
3	11° 06' 55.81"N	78° 50' 33.65"E	3-4 = 200.0m
4	11° 06' 54.84"N	78° 50' 27.14"E	4-1 = 70.0m

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2.0 General Information:

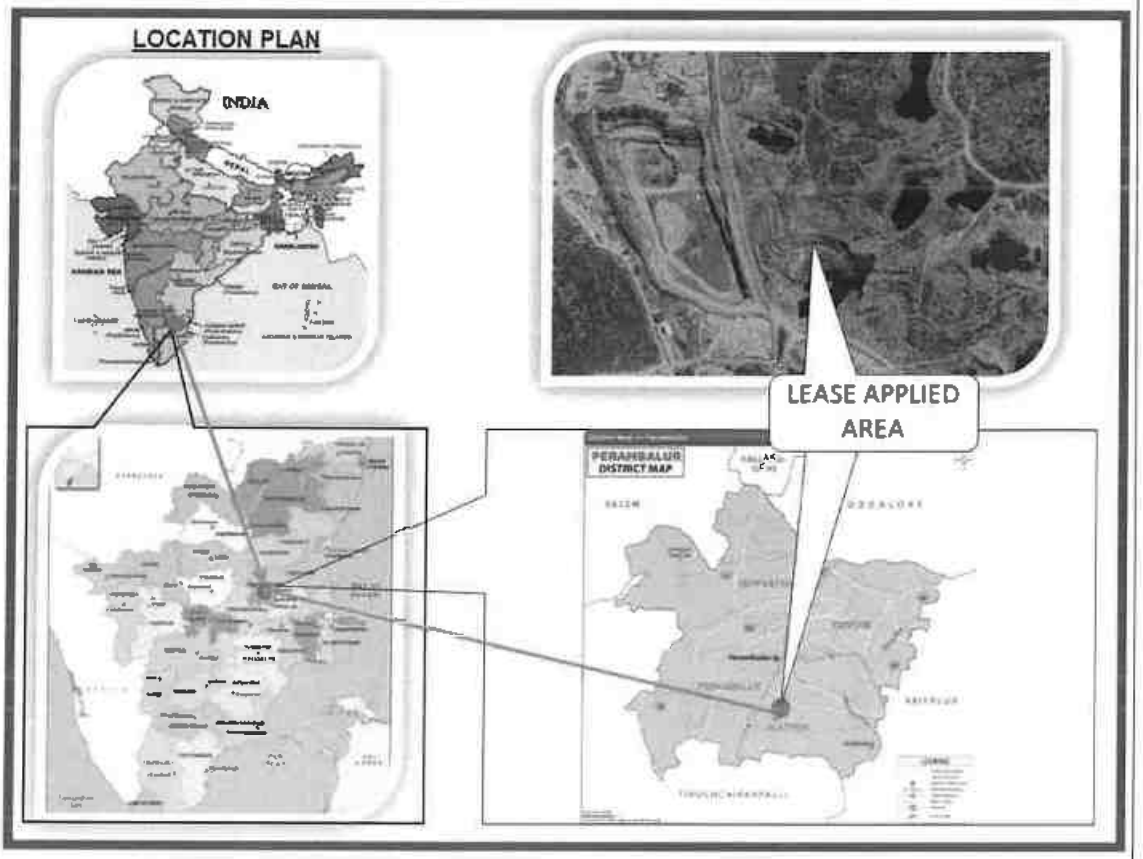
	a.	Name of the Applicant	:	Thiru.P.Velmurugan,
	b.	Address of the Applicant with phone No and e-mail id if any	:	No.1, Royal Mahalakshmi Nagar, Virudhachalam, Cuddalore – 606001. Cell No.: 73587 71411
	c.	Status of the Applicant	:	Individual
2.2	a.	Mineral Which the applicant intends to mine	:	Rough Stone.
	b.	Precise area communication letter No.	:	Precise area communication letter received from the Assistant Director, department of Geology and Mining, Perambalur vide Rc.No.125/G&M/2025, Dated: 09.05.2025.
	c.	Period of permission / lease granted	:	The Assistant Director, Department of Geology and Mining, Perambalur, has grant of lease Period for **five years.**
	d.	Name and Address of the QP preparing Mining Plan	:	**C.Natarajan, M.Sc., M.Phil.,** **Qualified Person** **M/s. GLOBAL MINING SOLUTIONS** (NABET ACCREDITED & ISO 9001 CERTIFIED CONSULTANT) Plot No. 6, S.F.No. 13/2, A2, VS City, RC Chettypatty, Kottamettupatty, Omalur, Salem, Tamil Nadu – 636 455 NABET ACCREDITATION NO – NABET/EIA/2326/IA 0110 Contact: 97502 23535 & 94446 54520.

P. வெல்முருகன்

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PERAMBALUR

3.0 Location:

S.No	Details of the Area:	
1	Corner Coordinates	Latitude :11°06'54.84"N to 11°06'58.07"N Longitude :78°50'26.79"E to 78°50'33.65"E
2	Toposheet Number	58 I/16
3	The altitude of the area	185m (MSL)
4	Extent	1.40.0 Ha
5	Survey No	10/1 (Block-3)
6	Village	Padalur (East)
7	Taluk	Alathur
8	District	Perambalur
9	State	Tamil Nadu



P. செல்வகணேஷ்

a.	Classification of the Area (Ryotwari / poramboke / others)	:	Government poramboke land
b.	Ownership / Occupancy of the Applied area (Surface rights)	:	It is Government land the applicant has obtained tender from the Government Please refer annexure no –I and IA.
c.	Toposheet No. with Latitude and Longitude	: : :	Topo Sheet No: 58 I/16 Latitude :11°06'54.84"N to 11°06'58.07"N Longitude :78°50'26.79"E to 78°50'33.65"E
d.	Existence of Public Road / Railway line if any nearby the area and approximate distance	:	There is an existing road from the area leads to Alathur – Padalur (west) road on west side of the area. The Nearest Railway line is Trichy – Ariyalur line which is about 19.7Km on southeastern side of the area.



SATELLITE IMAGERY OF THE LEASE APPLIED AREA



TOPOGRAPHICAL VIEW OF THE LEASE APPLIED AREA

Fig. Location of the lease applied area

P. உலகநாதன்

DEPUTY DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

PART - A

4.0 Geology and Mineral Reserves:

4.1	a.	Topography	:	➢ The area applied for quarry lease is exhibits hilly terrain covered by covered by Topsoil formation. The massive Charnockite formation is noticed below 1m (Avg) Topsoil and sloping towards southwest side of the area, the altitude of the area is above 185m (maximum) from MSL. ➢ No major river is found nearby the lease applied area. ➢ Water table is found at a depth of 67m in summer and 64m in rainy seasons. ➢ Temperature of the area is reported to be 18°C to a maximum of 42°C during summer. ➢ Rainfall of this area is about 800mm to 900 mm during the both NE & SW monsoons.
	b.	General Geology of the Area	:	The area is underlain by the wide range of metamorphic rocks of peninsular gneissic complex. These rocks are extensively weathered and overlain by the recent valley fills and alluvium at places. The geological formations found in the district are Archaean rocks like Gneisses, Granites, Charnockites basic granulites and calc-gneisses. The younger formations are Quartz veins and pegmatite. The rock type noticed in the area for lease is Charnockite which contains mostly Quartz and Feldspar with some ferromagnesian minerals. The Charnockite is part of peninsular Gneisses, a high grade metamorphic rock.

P. தமிழ்மணி

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PERAMBALUR
TAMIL NADU

				The strike of the Charnockite formation is N30°W-S30°E with vertical dipping. The general geological succession of the area is given as under. **AGE** — **ROCK TYPE** Recent - Topsoil Unconformity Archaean - Dolerite dyke Charnockite. Peninsular Gneissic complex and Calc Gneiss
4.2		Details of Exploration already carried out if any	:	No exploration was carried out, as the Rough stone formations are clearly visible from existing quarry pit.
4.3	a.	Estimation of Reserves	:	The Geological and Recoverable reserves are estimated by cross sectional method. Totally three sections have been drawn, one section drawn length wise as (X-Y) and another two sections drawn width wise as (A-B), (C-D) to cover maximum area considered for lease. The Plans and Sections have been drawn with a scale of 1:1000 and 1:500 respectively. Please refer plate No.III.

P. செல்வகணேஷ்

a. Geological Resources

The quarrying is restricted up to a depth of 81m (61m above ground level and 20m below ground level) only. Availability of resources is given below.

Table No-1

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Geological Resources of Rough stone in Ts
XY-AB	Above Ground Level	I	95	70	1	6650	-	2	13300	-
		II	28	70	5	-	9800	2.75	-	26950.00
		III	47	70	5	-	16450	2.75	-	45237.50
		IV	65	70	5	-	22750	2.75	-	62562.50
		V	78	70	5	-	27300	2.75	-	75075.00
		VI	85	70	5	-	29750	2.75	-	81812.50
		VII	85	70	5	-	29750	2.75	-	81812.50
		VIII	85	70	5	-	29750	2.75	-	81812.50
		IX	85	70	5	-	29750	2.75	-	81812.50
		X	85	70	5	-	29750	2.75	-	81812.50
	Below Ground Level	XI	85	70	5	-	29750	2.75	-	81812.50
		XII	85	70	5	-	29750	2.75	-	81812.50
		XIII	85	70	5	-	29750	2.75	-	81812.50
		XIV	85	70	5	-	29750	2.75	-	81812.50
Total						**6650**	**344050**	**-**	**13300**	**946137.50**
XY-CD	Above Ground Level	I	116	70	1	8120	-	2	16240	-
		II	88	70	5	-	30800	2.75	-	84700.00
		III	106	70	5	-	37100	2.75	-	102025.00
		IV	114	70	5	-	39900	2.75	-	109725.00
		V	115	70	5	-	40250	2.75	-	110687.50
		VI	115	70	5	-	40250	2.75	-	110687.50

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		VII	115	70	5	-	40250	2.75	-	110687.50
		VIII	115	70	5	-	40250	2.75	-	110687.50
		IX	115	70	5	-	40250	2.75	-	110687.50
		X	115	70	5	-	40250	2.75	-	110687.50
		XI	115	70	5	-	40250	2.75	-	110687.50
		XII	115	70	5	-	40250	2.75	-	110687.50
		XIII	115	70	5	-	40250	2.75	-	110687.50
	Below Ground Level	XIV	115	70	5	-	40250	2.75	-	110687.50
		XV	115	70	5	-	40250	2.75	-	110687.50
		XVI	115	70	5	-	40250	2.75	-	110687.50
		XVII	115	70	5	-	40250	2.75	-	110687.50
Total						**8120**	**631050**	**-**	**16240**	**1735387.50**
Grand Total						**14770**	**975100**	**-**	**29540**	**2681525.00**

Topsoil Formation : 29,450Ts

The Geological Resources of Rough stone : 26,81,525Ts

b. Already excavated

The area has been quarried in earlier operation the existing pit dimension are given below

Table No-2

Pit No	length (Max) in(m)	Width (Avg) in (m)	Depth (Max) in (m)
I	42	10	6m (above ground level)

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c. Available Mineable Reserve

The available mineable reserve calculated by deducting 10m safety distance and bench loss.

Table No-3

Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil in m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Mineable Reserves of Rough stone in Ts
XY-AB	Above Ground Level	I	84	50	1	4200	-	2	8400	-
		II	28	50	5	-	7000	2.75	-	19250.00
		III	47	50	5	-	11750	2.75	-	32312.50
		IV	65	50	5	-	16250	2.75	-	44687.50
		V	75	50	5	-	18750	2.75	-	51562.50
		VI	70	50	5	-	17500	2.75	-	48125.00
		VII	65	50	5	-	16250	2.75	-	44687.50
		VIII	60	50	5	-	15000	2.75	-	41250.00
		IX	55	50	5	-	13750	2.75	-	37812.50
		X	50	50	5	-	12500	2.75	-	34375.00
	Below Ground Level	XI	45	50	5	-	11250	2.75	-	30937.50
		XII	40	40	5	-	8000	2.75	-	22000.00
		XIII	30	30	5	-	4500	2.75	-	12375.00
		XIV	20	20	5	-	2000	2.75	-	5500.00
Total						**4200**	**154500**	-	**8400**	**424875.00**
XY-CD	Above Ground Level	I	116	50	1	5800		2	11600	
		II	85	50	5	-	21250	2.75	-	58437.50
		III	89	50	5	-	22250	2.75	-	61187.50
		IV	92	50	5	-	23000	2.75	-	63250.00
		V	88	50	5	-	22000	2.75	-	60500.00
		VI	83	50	5	-	20750	2.75	-	57062.50
		VII	78	50	5	-	19500	2.75	-	53625.00
		VIII	73	50	5	-	18250	2.75	-	50187.50
		IX	68	50	5	-	17000	2.75	-	46750.00
		X	63	50	5	-	15750	2.75	-	43312.50
		XI	58	50	5	-	14500	2.75	-	39875.00
		XII	53	40	5	-	10600	2.75	-	29150.00
		XIII	48	30	5	-	7200	2.75	-	19800.00
	Below Ground Level	XIV	43	20	5	-	4300	2.75	-	11825.00
Total						**5800**	**216350**	-	**11600**	**594962.50**
Grand total						**10000**	**370850**	-	**20000**	**1019837.50**

The available mineable reserve is computed as 10,19,837.50Ts of Rough stone and 20,000Ts of Topsoil upto a depth of 81m (61m above ground level and 20m below ground level) only.

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5.0 Mining:

5.1	Method of Mining	:	1. Opencast method of semi mechanized mining with 5.0m height 5m width the bench. 2. However, as far as the quarrying of Rough Stone is concerned, observance of the provisions of Regulation 106(2) (b) as above is seldom [possible due to various inherent petrogenetic factors coupled with mining difficulties. Hence it is proposed to obtain relaxation to the provisions of the above regulation from the Director of mines safety for which necessary provision is available with the regulation 106 (2) (b) of MMR-1961, under Mine Act-1952.
5.2	Mode of Working	:	The rough stone is proposed to quarry 5m bench height, 5m width with conventional opencast semi-Mechanized method. The quarry operation involves shallow jack hammer drilling, slurry blasting, excavation, Loading and transportation of Rough stone to the needy crusher/other buyers. The production of Rough stone in this quarry involves the following method which is typical for Rough Stone quarrying in contrast to other major mineral mining. Splitting of rock mass of considerable volume from the parent rock mass by jackhammer drilling and blasting, hydraulic excavators are used for loading the Rough Stone from pithead to the needy crusher/other buyers. Occasionally hydraulic excavators are attached with rock breakers for fragmentation to avoid secondary blasting. The primary boulders thus splitted are removed from the pits by excavators and further made to smaller sizes by rock breakers attached in excavators. It is a conventional opencast semi mechanized method of mining.
5.3	Proposed bench height & Width	:	Quarrying of Rough Stone is proposed bench height of 5m and bench width of 5m.
5.4	Details of Overburden / Mineral Production proposed for the first 5 years.	:	There is overburden in the form of topsoil, after excavation of topsoil will be utilized for afforestation purpose. The excavated rough stone will be directly loaded into tipper to the needy crusher/other buyers.

P. தமிழ்மணி

The Yearwise Production and Development Table

Table No –4

Year	Section	Topography	Bench	Length in (m)	Width in (m)	Depth in (m)	Topsoil in m^3	Rough stone in m^3	Bulk Density	Topsoil in Ts	Mineable Reserves of Rough stone in Ts
I	XY-AB	Above Ground Level	I	84	50	1	4200	-	2	8400	-
	XY-CD		I	116	50	1	5800	-	2	11600	-
			II	85	50	5	-	21250	2.75	-	58437.50
			III	89	50	5	-	22250	2.75	-	61187.50
			IV	92	50	5	-	23000	2.75	-	63250.00
			V	30	50	5	-	7500	2.75	-	20625.00
TOTAL							**10000**	**74000**	**-**	**20000**	**203500.00**
II	XY-CD	Above Ground Level	V	58	50	5	-	14500	2.75	-	39875.00
			VI	83	50	5	-	20750	2.75	-	57062.50
			VII	78	50	5	-	19500	2.75	-	53625.00
	XY-AB		II	28	50	5	-	7000	2.75	-	19250.00
			III	47	50	5	-	11750	2.75	-	32312.50
TOTAL							-	**73500**	-	-	**202125.00**
III	XY-AB	Above Ground Level	IV	65	50	5	-	16250	2.75	-	44687.50
			V	75	50	5	-	18750	2.75	-	51562.50
			VI	20	50	5	-	5000	2.75	-	13750.00
	XY-CD	Above Ground Level	VIII	73	50	5	-	18250	2.75	-	50187.50
			IX	68	50	5	-	17000	2.75	-	46750.00
TOTAL							-	**75250**	-	-	**206937.50**

IV	XY-AB	Above Ground Level	VI	50	50	5	-	12500	2.75	-	34375.00
			VII	65	50	5	-	16250	2.75	-	44687.50
			VIII	60	50	5	-	15000	2.75	-	41250.00
	XY-CD		X	63	50	5	-	15750	2.75	-	43312.50
			XI	58	50	5	-	14500	2.75	-	39875.00
TOTAL							-	**74000**	-	-	**203500.00**
V	XY-AB	Above Ground Level	IX	55	50	5	-	13750	2.75	-	37812.50
			X	50	50	5	-	12500	2.75	-	34375.00
		Below Ground Level	XI	45	50	5	-	11250	2.75	-	30937.50
			XII	40	40	5	-	8000	2.75	-	22000.00
			XIII	30	30	5	-	4500	2.75	-	12375.00
			XIV	20	20	5	-	2000	2.75	-	5500.00
	XY-CD	Above Ground Level	XII	53	40	5	-	10600	2.75	-	29150.00
			XIII	48	30	5	-	7200	2.75	-	19800.00
		Below Ground Level	XIV	43	20	5	-	4300	2.75	-	11825.00
TOTAL							-	**74100**	-	-	**203775.00**
GRAND TOTAL							**10000**	**370850**	-	**20000**	**1019837.50**

The applicant has proposed to carry out 10,19,837.50Ts of Rough stone and 20,000Ts of Topsoil formation upto a depth of 81m (61m above ground level and 20m below ground level) for the period of five years.

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5.5		Machineries to be used		
	a.	Drilling	:	It is proposed to use following machineries for quarrying rough stone

S.No	Type	Nos	Dia Hole mm	Size Capacity	Make	Motive power
1	Jack hammer	5	32	1.2m to 6m	Atlas Copco	Compressed air
2	Compressor	2	-	-	Atlas Copco	Diesel Drive

	b.	Loading	:	Excavator of 0.90m³ bucket capacity (with Rock breaker attachment) (2No).
	c.	Transportation	:	Tipper 5Nos (10/20Ts) capacity.
5.6		Disposal of Overburden	:	The overburden in the form of topsoil, after excavation topsoil will be preserved along the boundary barrier utilized for afforestation purpose.
5.7		Brief Note on Conceptual Mining Plan for the entire lease period	:	Conceptual Mining Plan is prepared with an object of five years of systematic development of bench lay outs, selection of ultimate pit limit, depth of quarrying, ultimate pit slope, selection of sites for construction of infrastructures etc. Ultimate pit size is designed based on certain practical factors such as the economical depth of mining, safety zones, permissible areas etc. Ultimate Pit dimension is given as under,

Ultimate Pit dimension (M) end of Mining plan Period			
Pit No	Length (max) in (m)	Width (Avg) in (m)	Depth(max) in(m)
I	190	50	81m (61m above ground level and 20m below ground level)

Afforestation has been proposed on all along the boundary barrier by planting trees.

All the baseline information studies like Air Quality monitoring, Noise and Vibration monitoring, Water Analysis studies will be carried out every year as per the MOEF norms.

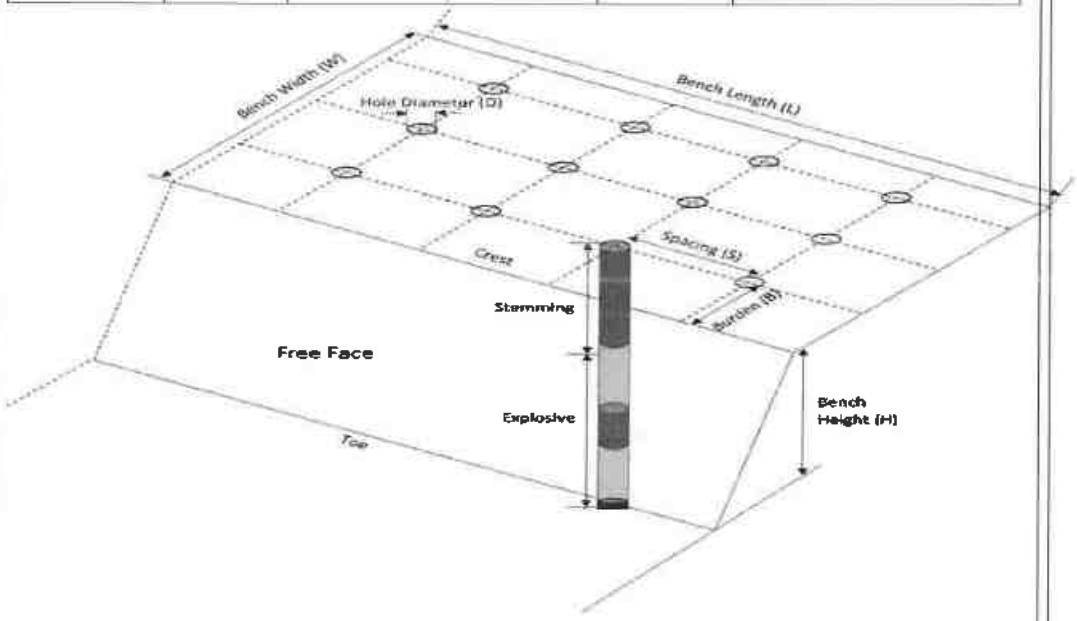
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6.0 Blasting:

6.1	Blasting Pattern	:	The massive formation shall be broken into pieces of portable size by drilling and blasting using jack hammers and shot hole blasting. Powder factor of explosives for breaking such hard rock shall be in the order of 6 to 7 Tonnes per Kg of explosives. Blasting parameters are as follows.

Diameter of the hole	Spacing	Depth	Burden for hole	Pattern of hole	Inclination of hole
32-36mm	0.6m	1 to 1.5m	0.6m	Zig Zag	70^0 from the horizontal



6.2	Types of Explosives	:	Small dia, 25mm slurry explosive are proposed to be used for shattering and heaving effect for removal and winning of Rough stone. No deep hole drilling or primary blasting is proposed.

P. செல்வகணேஷ்

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6.3	Measures proposed to minimize ground vibration due to blasting	:	➢ Controlled blasting measures will be adopted for minimizing ground vibration and fly rock. ➢ Shallow depths jackhammer drilling and blasting is proposed to be carried out with minimum use of explosive mainly to give shattering effect in rough stone for easy excavation and to control fly rock.

Number of holes	:	226
Powder factor	:	6Ts/Kg of explosives
Total explosive required	:	113Kg slurry explosives
Charge / hole	:	0.5Kg
Blasting time	:	12-2 Pm

6.4	Storage of Explosives and safety measures to be taken while blasting.	:	➢ The applicant will engage an authorized explosive agency to carry out the small amount of blasting and it will be supervised by competent and statutory foreman/ mines manager. ➢ ***The applicant ensure that will appoint the Mate (Should have Valid Blaster Certificate) during Blasting Operation.***

7.0 Mine Drainage:

7.1	Depth of Water table	:	The ground water table is reported as 67m below ground level. In the proposed mining plan only 81m (61m above ground level and 20m below ground level) for the proposed mining plan period depth has been envisaged as workable depth for safe & economic quarrying for the entire lease period. Hence the quarrying operation may not affect the ground water.
7.2	Arrangement and Places where the mine water is finally proposed to be discharged	:	The ground water may not rise immediately in this type of mining. However, the rain water percolation and collection of water from the seepage shall be less than 300lpm and it shall be pumped about periodically by a stand by diesel powered Centrifugal pump motivated with 7.5H.P.Motor. The quality of water is potable and it is not contaminated with any hazardous thing*-s. Hence, water stored in the quarry pit will be pumped into the adjacent agricultural fields. Further the water stored in the old pit will also be used for plantation purposes.

P. தமிழ்மணி

8.0	**Other Permanent Structures:**		
8.1	Habitations / Village	:	There are no habitations within a radius of 300m.
8.2	Power lines (HT/LT)	:	There is no Power lines (HT/LT) within a radius of 50m.
8.3	Water bodies (River, Pond, Lake, Odai, Channel, etc.)	:	The Tank is situated at 260m on the South side of the lease applied area. There are no other Water bodies (River, Pond, Lake, Odai, Channel, etc.) within a radius of 500m.
8.4	Archeological / Historical Monuments	:	There are no Archeological / Historical Monuments within a radius of 300m.
8.5	Road (NH, SH, Village Road etc)	:	The National Highway (NH-38) Viluppuram – Trichy is about 0.8km on Northwest side of the area. The State Highway (SH-142) Perambalur – Thuraiyur is about 11.9Km on Northwest side of the area.
8.6	Places of Worship	:	There are no Places of Worship within a radius of 50m.
8.7	Reserved Forest / Forest / Social Forest / Wild Life Sanctuary etc.,	:	There are no Reserved forest / Wild Life Sanctuary within a radius of 1Km.
8.8	Any Interstate Border, Protected areas under the Wild Life (Protection) Act, 1972, Critically Polluted Areas as Identified by Central Pollution Control Board and Notified Eco sensitive areas	:	There are No inter State border within a radius of 10kms.
8.9	Any Other Structures	:	Nil

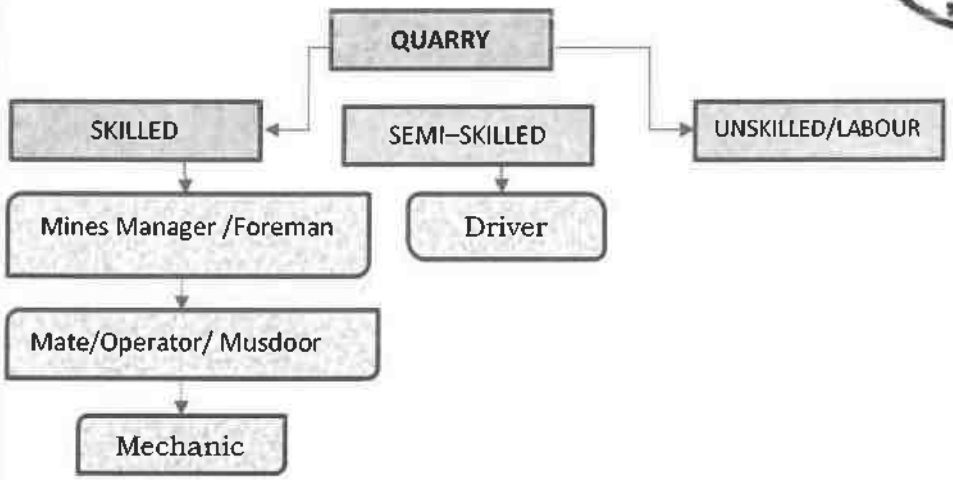
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9.0 Employment Potential & Welfare Measures:

9.1 Employment Potential (Management & Supervisory personal)

The proposed organization chart



1.	Skilled	Mines Manager	1 No.
		Foreman / Mate	2 No.
		Operator	10 No.
		Mechanic	1 No.
2.	Semi–skilled	Driver	5 No.
3.	Unskilled	Labours	13Nos
		Total =	32Nos

Allowing 10% absentee, the no. of men of roll will be around 29.

The above man power is adequate to meet out the production schedule and the machinery strength envisaged in the mining plan and to comply the statutory provisions of Mines Safety Regulations.

- **It is been ensured that, child labours under 18 years of age will not be engaged for quarrying operation.**
- **Necessary life insurance policies will be taken by the applicant to all the employees up to the end of the lease period.**

9.2		Welfare Measures		
	a.	Drinking Water	:	Packaged drinking water is available from the nearby approved water vendors in Alathur which is about 1.3km on Northwest side of the area.
	b.	Sanitary facilities	:	Semi-permanent latrines & urinals shall be maintained at convenient places for use of labours as per the provisions of Rule (33) of the Mines Rules, 1960 separately for males and females. Washing facilities shall also be arranged as per rule (36) of the Mines Rules, 1960.
	c.	First Aid Facility	:	First aid kits are kept in Mines office room, in case of such eventualities the victim will be given first aid immediately at the site and injured

P. தமிழ்மணி

				person will be taken to the hospital. Hospital is available at distance of 12.6Km (North) in Perambalur the competent and Statutory foreman/ permit manager will be in charge of first aid.
	d.	Labour Health	:	As per Mines Rule, Periodic medical examination related to occupational health safety will be conducted to all the workers in applicant's own cost.
	e.	Precautionary safety measures to the Labourers:		
		Safety provisions like helmet, goggles, safety shoes, Dust mask, Ear muffs etc., have to be provided as per the circulars and amendments made for Mine labours under the guidance of DGMS being a mechanized operation. Necessary training will be conducted once in a year to all the employees with the help of qualified and experienced officers to train about the safe and systematic quarrying operation.  		

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PART – B

10.0 Environmental Management Plan:

10.1	Existing Land Use Pattern	:	1. The area is exhibits hilly terrain covered by topsoil formation. 2. Quarrying operation is proposed up to a depth of 81m (61m above ground level and 20m below ground level) for the proposed mining plan period. 3. Fluctuation of Water table in this area is in between 67m and 64m during a year. 4. This region receives the average annual rainfall of 800mm to 900mm. The surrounding area is practiced by the seasonal cultivation. The existing land use pattern is given as under.

Table No-5

Sl. No.	Land Use	Present Area (Ha)	Area in use during the quarrying period (Ha)
1.	Quarrying Pit	0.04.2	0.95.0
2.	Infrastructure	Nil	0.01.0
3.	Roads	Nil	0.01.0
4.	Green Belt	Nil	0.43.0
5.	Unutilized	1.35.8	Nil
	Total =	**1.40.0**	**1.40.0**

10.2	Water Regime	:	Water table in this area is noticed at a depth of 67m and presently, in the proposed mining plan only 81m (61m above ground level and 20m below ground level) for the proposed mining plan period has been envisaged as workable depth for safe & economic quarrying for the entire lease period. hence, it will not affect the ground water depletion of this area.
10.3	Flora and Fauna	:	Except acacia bushes, no other valuable trees are noticed in the applied area. Further, neither flora of botanical interest nor fauna of zoological interest is noticed in this area.
10.4	Climatic conditions	:	Generally subtropical climatic condition prevails throughout the year and there is no sharp variation in climate. This District receives rain both in south west and north east monsoon. The average rainfall is about 800mm to 900mm and the temperature ranges from 18°C during winter and to a maximum of 42°C during the summer.

P. தமிழ்மணி

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<table>
<tr><td>10.5</td><td>Human Settlement</td><td>:</td><td>The nearest habitations with the population is given as under.
Table No-6<table><tr><th>S. No</th><th>Name of the Village</th><th>Approximate distance & Direction from lease applied area</th><th>Approximate population</th></tr><tr><td>1.</td><td>Pudhukurichi</td><td>3.0km - NE</td><td>500</td></tr><tr><td>2.</td><td>Alathur</td><td>1.3km – NW</td><td>1500</td></tr><tr><td>3.</td><td>Padalur</td><td>1.2Km-SE</td><td>400</td></tr><tr><td>4.</td><td>Padalur west</td><td>2.5km-SW</td><td>2000</td></tr></table></td></tr>
<tr><td>10.6</td><td>Plan for Air, Dust Suppression</td><td>:</td><td>Air or dust expected to be generated from drilling process, hauling roads, places of excavation etc., will be suppressed by periodical wetting of land by water spraying. Wet drilling and dust extractor arrangements will be provided to drilling units so as to control raise of dust from the site of drilling. Operators, those exposed directly to such conditions will be provide such protective equipment like mask, ear plug, helmet, gloze etc., as per the Mines Act.</td></tr>
<tr><td>10.7</td><td>Plan for Noise Control</td><td>:</td><td>Quarrying of Rough Stone will be carried out by drilling and blasting by using low power explosives, and hence, noise will be very minimum. However, periodical noise level monitoring will be carried out to check the noise level in and around the quarry site. Nowhere the noise level should exceed the permissible limit of 80db during the quarry working hours.</td></tr>
<tr><td>10.8</td><td>Environmental Impact Assessment Statement Describing Impact on mining on the next Five years</td><td>:</td><td>The mining plan proposed is for a small production of Rough Stone without involving deep hole drilling and heavy blasting. Such limited mining activity is not likely to cause any impact adversely on environment as far as pollution of air, water and noise is concerned, anyhow environmental impact studies will be conducted as per EIA notification issued by MOEF.</td></tr>
<tr><td>10.9</td><td>Proposal for Waste Management</td><td>:</td><td>There is no waste anticipated in this rough stone quarry operation.</td></tr>
</table>

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10.10	Proposal of Reclamation of Land affected during mining activities and at the end of mining.	:	In the proposed mining plan 81m (61m above ground level and 20m below ground level) for the proposed mining plan period and has been envisaged as workable depth for safe & economic mining during the lease period. Hence, after quarry reaches ultimate pit limit (for this lease period) of 81m depth, fencing will be constructed around the quarried pits to prevent inherent entry of the public and cattle.
10.11	Program for Afforestation	:	The 10m safety distance along the lease boundary has been identified to be utilized for afforestation Appropriate native species of Neem/Pungan trees will be planted in the first year. Nearly 4300Sqm area is proposed to use under afforestation by planting 516nos of Neem/Pungan trees during first year with an anticipated survival rate of 80%. The Quarry landuse, layout and afforestation plan is shown in Plate No.III.
10.12	Proposed Financial Estimate / Budget for (EMP) Environment Management		
	A.Fixed Asset Cost: 1. Land Cost (Tender amount) 2. First aid room and accessories 3. Labour Shed 4. Sanitary Facility **Total=**		 Rs. 5,11,00,000 Rs. 1,00,000 Rs. 1,00,000 Rs. 1,00,000 **Rs. 5,14,00,000/-**
	B.Operational Cost: 1. Machineries 2. Fencing cost **Total**	 : : :	 Rs.80,00,000- Rs. 1,50,000 **Rs.81,50,000/-**

P. முருகேசன்

	C.EMP Cost:	:	Budget Provision for the entire quarrying period. Air Quality Sampling = Rs. 40,000/- Water Quality Sampling = Rs. 40,000/- Noise Monitoring = Rs. 20,000/- Ground vibration test = Rs. 20,000/-
	Expenditure 1. Drinking water facility 2. Sanitary Arrangements 3. Safety kids 4. Water sprinkling 5. Afforestation **Total=**	: : : : :	 Rs.1,00,000/- Rs. 50,000/- Rs. 50,000/- Rs. 1,50,000/- Rs. 80,000/- **Rs. 5,50,000/-**
	Total Project Cost (A+B+C)	:	**Rs. 6,01,00,000 /-**
	CSR Cost(2% of Total Project Cost)	:	**Rs. 12,02,000 /-**

11.0 Mine Closure Plan:

11.1	Steps proposed for phased restoration, reclamation of already mined out area.	:	There is no proposal for back filling, reclamation and rehabilitation. The quarried pits after the end of the life of lease will be fenced to prevent inherent entry of public and cattles.
11.2	Measures to be under taken on mine closure as per Act & Rules	:	Measures will be taken as per the Acts and Rules. The quarried pit will be fenced by using Barbed wire fencing to prevent inherent entry of public and cattle.
11.3	Mitigation measures to be undertaken for safety and restoration/ reclamation of the already mined out area	:	Mitigation measures: Drilling will be carried out by wet drilling mode to control the dust propagation into the air. Blasting will be carried out on limited scale. Mist Water spraying on haul road is proposed to prevent the dust propagation into the air.

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12.0 Any Other Details Intend to Furnish by the Applicant:

(i) Permission will be obtained from the District Mines Office to extract the Rough Stone from the Boundary barriers and for slopes.

(ii) Care and precautionary measures will be taken for the safety of workers as per Rules and Acts.

(iii) The applicant will endeavor every attempt to quarry the Rough Stone economically without any wastage and to improve the environment and ecology.

(iv) The Mining Plan is prepared by incorporating the conditions stipulated in the precise area communication issued and relevant mining laws in force.

(v) Any violation pointed out by the inspecting authorities shall be rectified as per the guidelines of the Department.

Prepared by

C.Natarajan, M.Sc., M.Phil.,
Qualified Person

C.NATARAJAN M.Sc.,M.Phil.,
Qualified Person

Place : Salem
Date : 12.05.2025

This Mining Plan is Approved Subject to the Condition ... iation & Indicated to the Mini... Approval Letter No...1.25/(Mines) dt.13.6.2025 Office of the A.D.Geology & Mining Perambalur

...is mining plan is approved without ...judice to any other legal stipulations ...d as per the G.O.(Ms) No.79, Industries ...MC1) Department Dt. 06.04.2015 and subject to furnish ... of the condition laid down under ... 1959

13/06/25

Assistant Director
Dept. of Geology and Mining
Perambalur District.

13/6/25

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ANNEXURE I

Rc.No.125/G&M/2025, Dated:09.05.2025

Department of Geology & Mining
Collectorate,
Perambalur – 621212.

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

PRECISE AREA COMMUNICATION LETTER

Sub : Mines and Minerals - Perambalur District – Rough Stone - e-Tender cum auction conducted on 27.03.2025 under Tender ID:2025_CGAM_525779_1 – Thiru.P.Velmurugan (BID ID: 1275146) quoted highest Bid amount (H1) For the quarry listed in Serial Number 25 – Declared as H1 bidder – H1 Bid Amount remitted – Solvency Certificate submitted – Precise Area Communicated – Reg.

Ref:
1. G.O.(Ms).No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024
2. Perambalur District Gazette (Extraordinary) Notification No.1, dated:18.02.2025.
3. E-Tender published under Tender ID:2025_CGAM_525779_1 in Tamil Nadu Governmente-tender portal.
4. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.125/G&M/2025, dated:28.03.2025 (to remit 10% of highest bid amount)
5. Remittance challan No. 20250329001676 dated: 29.03.2025 submitted by Thiru.P.Velmurugan(BID ID:1275146).
6. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.125/G&M/2025, dated 01.04.2025 (to remit remaining 90% of the bid amount)
7. Remittance challan No. 20250430011255 dated.30.04.2025 submitted by Thiru.P.Velmurugan(BID ID:1275146).

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I invite your attention to the references cited above

Notice Inviting Tender (NIT) was published vide Perambalur District Gazette Extraordinary Notification No.1, dated.18.02.2025, inviting applications for grant of rough stone quarry leases in Government poramboke lands in Perambalur District through e-Tender cum Auction. Online tender was published in Tamil Nadu Government e-tender portal (https://tntenders.gov.in/) under Tender ID: 2025_CGAM_525779_1 and e-Auction was conducted 27.03.2025 for bidders whos' bids were qualified technically and financially.

After Financial Evaluation, Thiru.P.Velmurugan(BID ID:1275146) was declared as H1 bidder for the quarry listed in Serial Number 25 of the Gazette as he quoted highest bid amount of Rs.5,14,00,000/- for the said quarry. The H1 bidder was directed to remit 10% of the Highest bid amount vide notice in the reference 4th cited and accordingly, the H1 bidder has remitted 10% of the bid amount to a sum of Rs. 51,40,000/- and submitted remittance challan No.20250329001580 dated:29.03.2025 to this office.

P. வேல்முருகன்

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Subsequently, Thiru.P.Velmurugan(BID ID:1275146) was directed to remit the remaining 90% of Highest bid amount after adjusting the Bid Security already paid by him within one month to Government head of account and to submit original remittance challan to this office. Accordingly, Thiru.P.Velmurugan(BID ID:1275146) has remitted Rs.4,40,84,769/-after deducting Rs. 21,75,231/-(the Bid Security amount already paid by the bidder) in Government account within one month and submitted remittance challans to this office.

The details of H1 Bidder for the quarry listed in Serial No.25 of the District Gazette, H1 Bid Amount offered and remittance of Bid amount by bidder are as follows.

1.	**Quarry Detail**	
	Serial No. in District Gazette No.01, dated 18.02.2025.	25
	Taluk	Alathur
	Village	Padalur (East)
	S.F.No.	10/1 Block 3
	Extent	1.40.0 Hectares
	Lease Period	5 Years
2.	**H1 Bidder, Bid Amount Remittance**	
	H1 Bidder	Thiru. P.Velmurugan (BID ID:1275146) No.1, Royal mahalakshmi Nagar, Virudhachalam, Cuddalore -606 001.
	H1 Bid Amount	Rs.5,14,00,000/-
	10% of H1 bid amount remitted	Rs. 51,40,000/- (Challan No. 20250329001676 dated: 29.03.2025)
	Bid Security (EMD) already remitted	Rs. 21,75,231/-
	90% of bid amount paid after adjusting Bid Security already paid	Rs. 4,40,84,769/- (Challan No. 20250430011255, dated.30.04.2025)

The H1 Bidder, Thiru.P.Velmurugan(BID ID:1275146) has remitted entire H1 Bid Amount of Rs.5,14,00,000/- in Government account within one month as per sub- rule 16 of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959

Therefore, in exercise of the powers conferred under sub rule 17(a) of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959, an extent of 1.40.0 hectares of Government land in S.F.No.10/1 Block 3 of Padalur (East) Village, Alathur Taluk, Perambalur District as notified in Serial Number.24 of the Perambalur District Gazette (Extraordinary) Notification No.1, dated: 18.02.2025 is hereby fixed as Precise Area for grant of permission to quarry Roughstone for a period of 5 years to Thiru. P.Velmurugan(BID ID:1275146), subject to the following conditions

P. வேலுமுருகன்

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

1. 10 meters safety distance should be left out for the adjacent Government lands.
2. The applicant shall not make any hindrance to the adjacent lands and public.
3. The applicant should submit approved Mining Plan, Environment Clearance and Consent to Establish (CTE) & Consent to Operate (CTO) issued by competent authorities for grant of quarrying lease in the subject area.

The applicant Thiru.P.Velmurugan (BID ID:1275146) is directed to submit draft Mining Plan for the above area within 90 days for the approval of the Assistant Director, Geology and Mining, Perambalur and to submit Environment Clearance obtained from SEIAA, Tamil Nadu and CTE & CTO issued by the Tamil Nadu Pollution Control Board subsequently for further process.

Encl: Map showing the proposal lease area.

09.5.25

Assistant Director,
Geology and Mining,
Perambalur.

To
Thiru.P.Velmurugan
(BID ID: 1275146)
No.1, Royal mahalakshmi Nagar,
Virudhachalam,
Cuddalore -606 001.

Copy to:

9/5/26

1. The Chairman,
   SEIAA Level Environment Impact Assessment Authority,
   Panagal Maligai, Saidapet,
   Chennai.
2. The Commissioner of Geology and Mining, Chennai-32.

P. வெல்முருகன்

ANNEXURE 10

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

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Registered No. TN / SRGM – 10

PERAMBALUR DISTRICT GAZETTE

EXTRAORDINARY PUBLISHED BY AUTHORITY

PERAMBALUR, FEBRUARY 18, 2025

No. 1]

[Maasi 06, Kurothi, Thiruvalluvar Aandu - 2056]

NOTIFICATION BY THE COLLECTOR

(Rc. No.35 / G&M / 2022, Dated : 17–02–2025)

E-mail: (minespmb@gmail.com)

Notice Inviting Tender(NIT)

"Inviting Application for Grant of Roughstone Quarry Leases in Government Lands"

In exercise of the power conferred by Section 15 of Mines and Mineral (Development & Regulation) Act, 1957 and in accordance with the Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959 read with G.O. Ms. No.21, Natural Resources (MMC.1), 31st July 2024 as amended from time to time notified thereunder, the District Administration of Perambalur District, Tamil Nadu has identified 44 (Forty four) areas for Roughstone Quarries in Perambalur District as indicated in the Annexure-I.

The E-tender with forward bidding will be conducted through online electronic platform with url address https://tntenders.gov.in and hereby invites applications for the said purpose.

Aspiring applicants can register themselves as bidders using their Digital Signature certificate on the portal https://tntenders.gov.in On Successful registration, bidders will obtain login ID and password necessary for submitting the application and for participation in the e-auction process. **Bidders Manual Kit** in the portal https://tntenders.gov.in provides with all requisite illustrations guiding through various stages of the e-auction process.

The terms and conditions of the e-auction process, details of application fee and bid security amount, detailed information regarding the notified areas, model affidavits to be uploaded in the technical bid are available in the detailed tender document, that can be downloaded free of cost in the portal https://tntenders.gov.in

Intending bidders are advised to visit the mentioned site regularly till closing date of E-auction for any corrigendum / addendum / amendment.

P. உலகநாதன்

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Application Fee – Rs.5,000 (Non – Refundable) for each quarry

Bid submission start date	:	19–02–2025 from 10.00 hrs
Bid Submission end date	:	22–03–2025 upto 16.00 hrs
Financial bid opening andlive e-auction date	:	Will be intimated later on through Tamil Nadu e-Tender portal

ANNEXURE – I

Tender File No.Rc.No.35/G&M/2022, Dated : 17–02–2025

List of Areas Identified in Government lands in Perambalur District of Tamil Nadu for Grant of Rough Stone Quarry Leases through e-Auction.

Sl. No.	Taluk	Name of the Village	SF.No	Extent in Ha	Land Classification	Period of Lease
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Perambalur	Kalpadi(N)	328/2 Block 31	1.10.0	Unassessed waste land - Malai	5
2	Perambalur	Kalpadi(N)	328/2 Block 34	1.00.0	Unassessed waste land - Malai	10
3	Perambalur	Kalpadi(N)	328/2 Block 35	1.50.0	Unassessed waste land - Malai	5
4	Perambalur	Kalpadi(N)	328/2 Block 36	1.00.0	Unassessed waste land - Malai	5
5	Perambalur	Kalpadi(N)	328/2 Block 37	1.00.0	Unassessed waste land - Malai	5
6	Perambalur	Kalpadi(N)	328/2 Block 38	1.00.0	Unassessed waste land - Malai	10
7	Perambalur	Chatramanai	23 Part-1	1.10.0	Unassessed waste land – Eli Kundru	5
8	Perambalur	Thurai mangalam	280/13A1 Block-8	1.00.0	Unassessed waste land - Kundru	10
9	Perambalur	Elambalur	27/1A (Block-1)	1.20.0	Unassessed waste land - Malai	5
10	Perambalur	Elambalur	27/1A, (Block-2)	1.80.0	Unassessed waste land - Malai	10
11	Perambalur	Elambalur	27/1A, (Block-3)	2.50.0	Unassessed waste land - Malai	10
12	Perambalur	Aranaral(N)	120/2A1A (Part-1)	1.50.0	Unassessed waste land - Kundru	10
13	Perambalur	Aranaral(N)	120/2A1A (Part-2)	1.50.0	Unassessed waste land - Kundru	10
14	Perambalur	Aranaral(N)	120/2A1A (Part-3)	1.80.0	Unassessed waste land - Kundru	5
15	Perambalur	Sengunam	52/1(Part-1)	1.80.0	Unassessed waste land - Malai	10
16	Perambalur	Sengunam	52/1(Part-2)	1.40.0	Unassessed waste land - Malai	10

P. தமிழ்மணி

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Sl. No.	Taluk	Name of the Village	SF.No	Extent in Ha	Land Classification	Period of Lease
(1)	(2)	(3)	(4)	(5)	(6)	(7)
17	Perambalur	Sengunam	52/1(Part-3)	1.50.0	Unassessed waste land - Malai	10
18	Alathur	Narana mangalam	300/1 Part	2.02.0	Unassessed waste land - Malai	5
19	Alathur	Narana mangalam	324/1 Block-1	2.00.0	Unassessed waste land - Kallankuthu	5
20	Alathur	Nattar mangalam	195 Part	1.50.0	Unassessed waste land - Kallankuthu	5
21	Alathur	Nattar mangalam	258 Block-1	1.00.0	Unassessed waste land - Malai	5
22	Alathur	Nattar mangalam	258 Block-2	2.00.0	Unassessed waste land - Malai	5
23	Alathur	Padalur(E)	10/1 Block 1	1.50.0	Unassessed waste land - Kallankuthu	5
24	Alathur	Padalur(E)	10/1 Block 2	1.40.60	Unassessed waste land - Kallankuthu	10
25	Alathur	Padalur(E)	10/1 Block 3	1.40.0	Unassessed waste land - Kallankuthu	5
26	Alathur	Padalur(E)	10/1 Block 4	1.40.0	Unassessed waste land - Kallankuthu	5
27	Alathur	Padalur(E)	10/1 Block 5	2.10.0	Unassessed waste land - Kallankuthu	5
28	Alathur	Padalur(E)	10/1 Block 6	2.20.0	Unassessed waste land - Kallankuthu	10
29	Alathur	Padalur(E)	10/1 Block 7	1.30.0	Unassessed waste land - Kallankuthu	5
30	Alathur	Padalur(E)	10/1 Block 8	1.20.0	Unassessed waste land - Kallankuthu	5
31	Alathur	Padalur(E)	10/1 Block 9	1.20.0	Unassessed waste land - Kallankuthu	5
32	Alathur	Padalur(E)	10/1, Block-13	1.00.0	Unassessed waste land - Kallankuthu	5
33	Alathur	Padalur(E)	123 Block 1	1.50.0	Unassessed waste land - Kallankuthu	5
34	Alathur	Padalur(E)	123 Block 2	1.50.0	Unassessed waste land - Kallankuthu	5
35	Alathur	Padalur(E)	123 Block 3	1.50.0	Unassessed waste land - Kallankuthu	5
36	Alathur	Padalur(E)	123 Block 4	2.00.0	Unassessed waste land - Kallankuthu	5
37	Alathur	Padalur(E)	172 Block 1	1.50.0	Unassessed waste land - Kallankuthu	5

P. தமிழ்ச் செல்வன்

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Sl. No.	Taluk	Name of the Village	SF.No	Extent in Ha	Land Classification	Period of Lease
(1)	(2)	(3)	(4)	(5)	(6)	(7)
38	Alathur	Padalur(E)	172 Block 2	1.50.0	Unassessed waste land - Kallankuthu	5
39	Alathur	Padalur(E)	172 Block 3	1.50.0	Unassessed waste land - Kallankuthu	5
40	Veppanthattai	Vengalam(E)	200/1B Part, Block-13	1.50.0	Unassessed waste land - Malai	10
41	Veppanthattai	Vengalam(E)	200/1C, Part, Block-1	1.40.0	Unassessed waste land - Malai	10
42	Veppanthattai	Vengalam(E)	200/1C, Part, Block-14	1.40.0	Unassessed waste land - Malai	10
43	Veppanthattai	Vengalam(E)	200/1C Part, Block-15	1.50.0	Unassessed waste land - Malai	10
44	Veppanthattai	Vengalam(E)	200/1C Part, Block-16	1.50.0	Unassessed waste land - Malai	10

Perambalur,
17th February 2025.

GRACE PACHUAU,
District Collector.

Printed by the Commissioner of Stationery and Printing at the Government Branch Press, Tiruchirappalli
and published by the Collector of the District. ~
P.ெ2500 ெ4ன

LOCATION OF QUARRY LEASE
BLOCK AREA:
S.F.NO : 10/1,
EXTENT : 69.07.0Hq,
VILLAGE: PADALUR EAST,
TALUK : ALATHUR,
DISTRICT: PERAMBALUR

N

LEASE APPLIED AREA

Assistant Director
Dept. of Geology and Mining
Perambalur

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

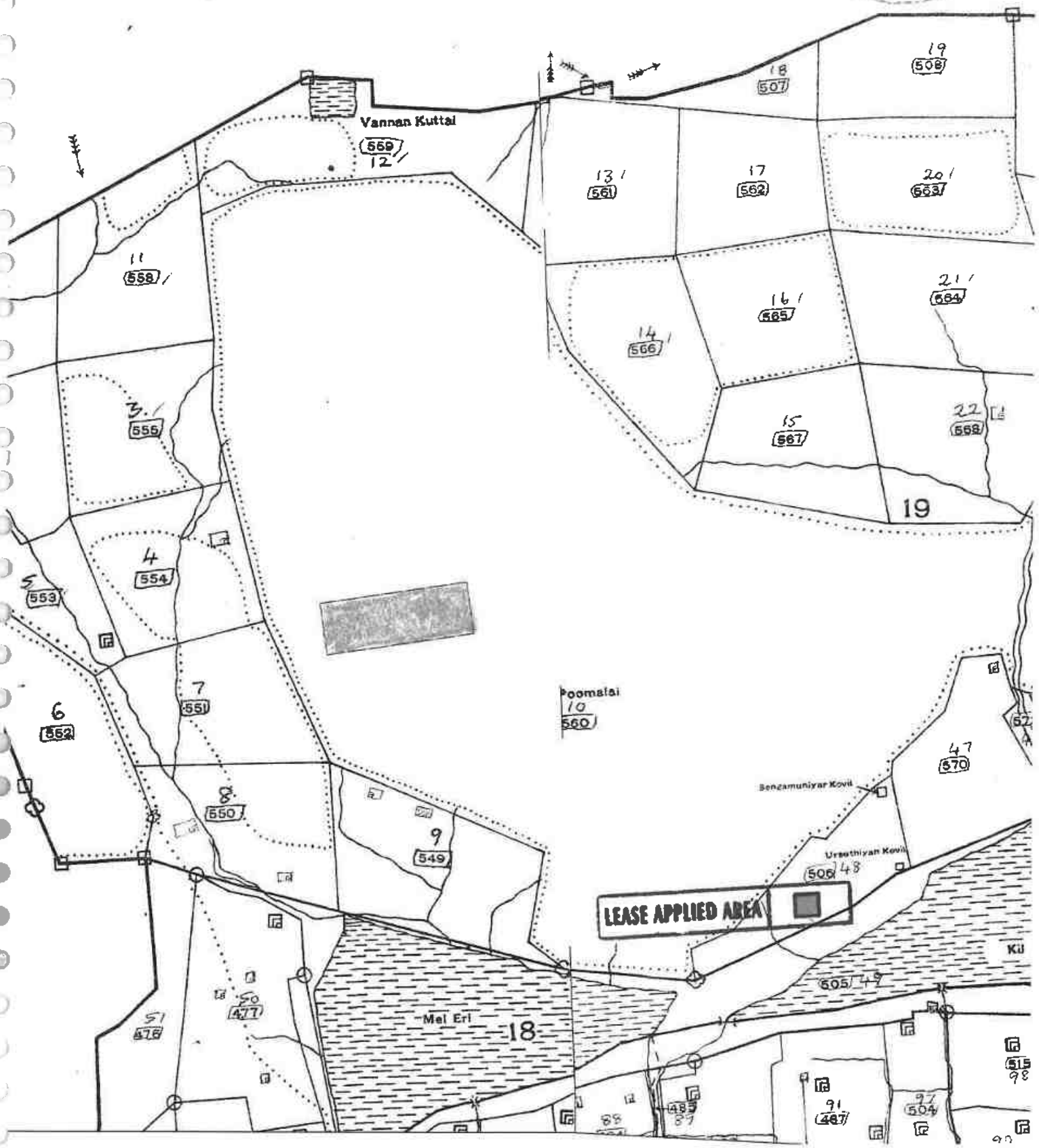
ANNEXURE

ANNEXURE III

DIRECTOR OF GEOLOGY AND MINES PERAMBALUR

PADALUR EAST. VH NO. 1

V. NO



P. செல்லதுரை

1434 ஆம் பசலியில் மாவட்டம் கிராமக் கணக்கு வட்டம்

எண் 2

கிராமத்தில் வருடவாரி புலவாரி கைப்பற்று சாகுபடி அடங்கல் கணக்கு

நில வரித் திட்டத்தின்படி புலன்களின் விபரம்.					கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அதுபோக தாரருடைய பெயர்.	சாகுபடியாளின் பெயர்.	முதல் போகம்.					இரண்டாம் போகம்.					கீழ்க்கண்டவகையில் பயிரிடப்படாது உள்ள நிலத்தின் தன்மை மற்றும் பரப்பின் விவரங்கள் ஒவ்வொரு நில அளவை எண் அல்லது அதன் பகுதியில்.	பயிர் பார்வையிடும் அலுவலர் குறிப்புரை.
நில அளவை எண்.	உட்பிரிவு எண்	பரப்பு.	தீர்வை.	ஒரு போகம் அல்லது இரு போகம்.		நிலத்தின் சந்த பகுதி மாவது சாகுபடியாளால் பயிரிடப்பட்டுள்ளதா.	எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது	பயிரின் பெயர்.	பயிரான / அறுவடையான பரப்பு.	உள்ளமையான பாய்ச்சல் ஆதாரம்.	விளைச்சல் அளவு விழுக்காடு.	எந்த மாதத்தில் பயிர் செய்யப்பட்டது அறுவடை மாதத்தில் செய்யப்பட்டது.	பயிரின் பெயர்.	பயிரான / அறுவடையான பரப்பு.	உள்ளமையான பாய்ச்சல் ஆதாரம்.	விளைச்சல் அளவு விழுக்காடு.	அரை அலுவலரின் குறிப்புரை :- (1) புலன்களின் பகுதிகளில் இனங்களில் பயிரிப்பட்ட விவரங்கள் அளவில். (2) வகைப்பாடில் இல்லாத நிலங்களின் சாகுபடியின் தன்மையும் (3) முந்தைய மாதத்தில் பாய்ச்சல் உதவியின்றி பயிரிப்பட்டவை என்று பதிவாகியுள்ள நிலங்களுக்கு பிந்தைய மாதங்களில் நீர் பாய்ச்சப்பட்ட விவரங்கள்.	(அ) வனம். (ஆ) பயனற்ற பயிர் செய்ய இயலாத நிலம். (இ) விவசாயம் மற்றும் இதர காரியங்களுக்கு பயன் படுத்தப் படும் நிலம். (ஈ) பயிரிடத்தக்க தரிசு (உ) நிலையான புல் தரைகளும் மற்றும் இதர மேய்ச்சல் நிலங்களும். (ஊ) விதைக்கப்பட்ட நிகர பரப்பில் சேர்க்கப்படாத மரவகைப் பயிர்களும் தோப்புகளும். (எ) நடப்புத் தரிசுகள் (ஏ) இதர தரிசு நிலங்கள்.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(18அ)	(19)
10	1	0.36.5	1		—		—	—									சம்மைக்கப்பட்டுள்ளது		
						12 வருடங்கள்													
							27-6												
								30423											
							அரசு நில அளவை அலுவலர் 73 - பாடலூர் (திருத்தம்) தலைமை அலுவலகம், பெரம்பலூர் மாவட்டம்.												
10	1					—													

ANNEXURE IV

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

ANNEXURE

ASST. DIRECTOR OF GEOLOGY AND MINING 12 PERAMBALUR

1	2	3	4	5	6	7	8	9	10	11	
							சு.வை	வேறு தூரம்	சு.வை		
8	3A	8-3A	ச	பா	...	8-4	16	1 09	0 26·0	0 28	653 தெ.ரா.வி(1). சு.முத்து சாமி(2).
	3B	-3B	அ	பா	...	8-4	16	1 09	1 26·5	1 37	..... தரிசு.
	4	-4	ச	பா	...	8-4	16	1 09	0 20·0	0 22	653 தெ.ரா.வி(1), சு.முத்தம் மாள்(2). சதுரக் கிணறு
	5	-5	ச	பா	...	8-4	16	1 09	1 22·5	1 33	5 ரா.அமிர்தம் மாள். சதுரக் கிணறு
									3 79·0	3 18	
9	1A	9-1A	அ	பா	...	8-4	16	1 09	0 21·0	0 23	... தரிசு.
	1B	-1B	ச	பா	...	8-4	16	1 09	1 02.5	1 11	604 வீ.ரெங்கம் மாள். சதுரக் கிணறும் கூரைவீடும்.
	1C	-1C	ச	பா	...	8-4	16	1 09	1 43·5	1 56	632 தெ.வீரன் செட்டி.
	2	-2	அ	புற	...	...	...	...	1 73·0	...	..... நீர்ப்பிடிப்பு
									4 40·0	2 90	
10	1	10-1	அ	இ.எ.த	...	...	...	...	66 61.5	...	..... கல்லாங் குத்து.
	2	-2	அ	பா	...	8-4	16	1 09	2 08·5	2 98	..... தரிசு.
									68 70·0	2 98	
11	1	11·1	ச	பா	...	8-4	16	1 09	0 38·0	0 42	65 செ.ராமராஜ்.
	2	-2	அ	புற	...	...	...	...	0 13·5	...	..... வாரி.
	3A	-3A	அ	பா	...	8-4	16	1 09	1 18.0	1 28	..... தரிசு.
	3B1	-3B பா	ச	பா	...	8-4	16	1 09	0 06.0	0 07	128 வீ.ராஜலஷ்மி.
	3B2	-3B பா	ச	பா	...	8-4	16	1 09	0 06.5	0 08	6 வீ.அலமேலு.
	3B3	-3B பா	ச	பா	...	8-4	16	1 09	0 03·0	0 06	376 பொ.சாமிக் கண்ணு.
	3B4	-3B பா	ச	பா	...	8-4	16	1 09	0 03·0	0 06	307 பொ.தங் கையா.

P. செல்வகணேஷ்

ANNEXURE V


भारत सरकार
GOVERNMENT OF INDIA

வேல்முருகன் பிச்சை
VELMURUGAN PICHAI
பிறந்த நாள்/DOB: 17/05/1971
ஆண்/ MALE

7587 4861 9358

எனது ஆதார், எனது அடையாளம்


भारतीय विशिष्ट पहचान प्राधिकरण
UNIQUE IDENTIFICATION AUTHORITY OF INDIA

முகவரி:
S/O Sekar, 1, ராயல் மகாலெட்சுமி நகர்,
விருதாசலம், கடலூர்,
தமிழ் நாடு - 606001

Address:
S/O Pichai, 1, royal mahalakshmi nagar,
Virudhachalam, Cuddalore,
Tamil Nadu - 606001

7587 4861 9358

1947
1800 300 1947
help@uidai.gov.in
www.uidai.gov.in

P. வேல்முருகன்

ANNEXURE VII

CHETTINAD CEMENT CORPORATION LTD.

(Regd. Office: RANI SEETHAI HALL BUILDING IV & V FLOORS, 603, ANNA SALAI, MADRAS 600006)
WORKS OFFICE: PULIYUR.

TELE: PHONE 21144 / 22744 / 21745 KARUR
GRAM "CEMENT" Puliyur C.F.
Telex: 0456-215.
STD Code: 04324

All correspondences to:
Kumaramangalam Nagar
PULIYUR CEMENT FACTORY POST 639114
(Kadavur Taluk Trichy Dt.)

DIRECTORATE OF GEOLOGY

T.RAJU.,B.E.,
MINES MANAGER & DY.GENERAL MANAGER.

22nd September,1987.

CERTIFICATE.

This is to certify that Mr.C.Natarajan has been working as a Geologist from 14-12-1979 to till date. He has been incharge of supervision of day to day functions in respect of Exploration, Preparation of Geological Plans & Sections, Preparation of Mines Plans, and Quality control and other allied mining activities in the following Pits of our Seethainagar Limestone Mines in Anna District.

Name of the Pit.		Average Raising/day.
1. Alambadi Pit.	-	1,700 T.
2. Mallapuram Pit.	-	900 T.
3. Karikkali Pit.	-	150 T.
Total.	-	2,750 T.

He has got nearly Eight years of total experience in our Mines in the above supervisory capacity.

for CHETTINAD CEMENT CORPORATION LTD.,

(T.RAJU).
Mines Manager & Dy. General Manager.

P. சொல்லையன்

3219.

ASST. DIRECTOR OF GEOLOGY AND MINING
PERAMBALUR

ANNAMALAI UNIVERSITY

Faculty of Science

The Senate of the Annamalai University hereby makes known that C. Natarajan has been admitted to the Degree of Master of Science (by Examination) in Geology, he having been certified by duly appointed Examiners at the examination held in April 1976, to be qualified to receive the same and that he was placed in the First Class.

Given under the seal of the University.

Annamalainagar
8th December 1976.

P. செல்லதுரை

A. Chandrasekhar
Vice-Chancellor.



PLATE NO: I

DATE OF SURVEY :10.05.2025

APPLICANT:

THIRU.P.VELMURUGAN
NO.1,ROYAL MAHALAKSHMI NAGAR,
VIRUDHACHALAM,
CUDDALORE - 606 001.

ESTIMATION OF MINEABLE RESERVES TO THE AREA PROPOSED FOR AUCTION

S.F.NOs : 10/1(BLOCK-3),
EXTENT : 1.40.0Ha.
VILLAGE : PADALUR EAST.
TALUK : ALATHUR.
DISTRICT : PERAMBALUR.

INDEX

Q. L. APPLIED AREA :

TOPO SHEET NO : 58 I /16

LATITUDE : 11°06'54.84"N to 11°06'58.07"N

LONGITUDE : 78°50'26.79"E to 78°50'33.65"E

LOCATION PLAN

NOT TO SCALE

PREPARED BY :

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED ON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

C.NATARAJAN,M.Sc.,M.Phil.,
QUALIFIED PERSON

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

KEY PLAN

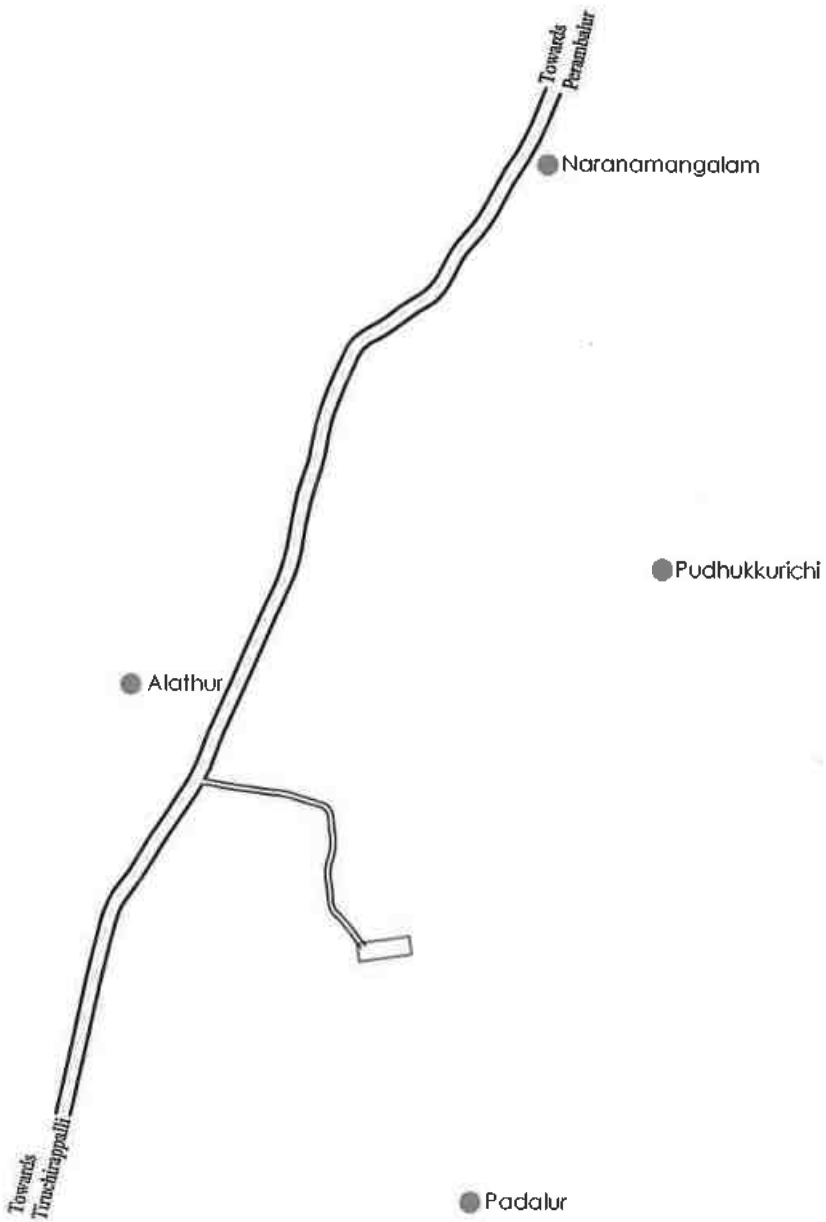


PLATE NO:I-D

DATE OF SURVEY:10.05.2025

APPLICANT:

THIRU.P.VELMURUGAN
NO.1.ROYAL MAHALAKSHMI NAGAR,
VIRUDHACHALAM,
CUDDALORE - 606 001.

QUARRY LEASE APPLIED AREA:

S.F.NOs : 10/1(BLOCK-3),
EXTENT :1.40.0Ha,
VILLAGE : PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

Q.L.APPLIED AREA

NATIONAL HIGHWAY

APPROACH ROAD

HABITATIONS

KEY PLAN

Not To Scale

PREPARED BY :

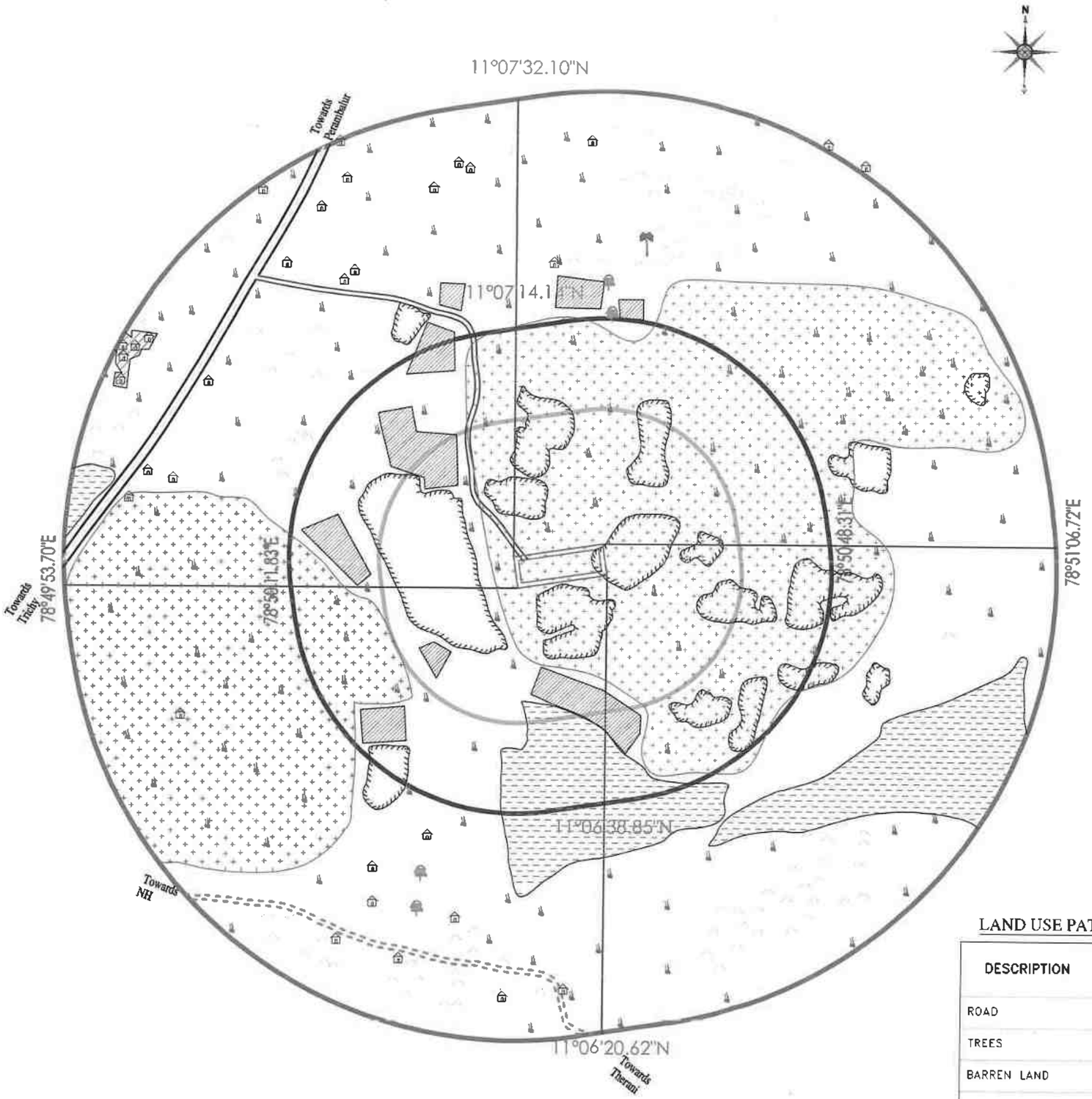
THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT.

C.NATARAJAN.M.Sc.,
QUALIFIED PERSON

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

PLATE NO-IA

DATE OF SURVEY :10.05.2025



P. வேல்முருகன்

APPLICANT:

THIRU P.VELMURUGAN
NO.1,ROYAL MAHALAKSHMI NAGAR,
VIRUDHACHALAM,
CUDDALORE - 606 001.

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

QUARRY LEASE APPLIED AREA:

S.F.NOs : 10/1(BLOCK-3).
EXTENT :1.40.0Ha.
VILLAGE : PADALUR EAST.
TALUK : ALATHUR.
DISTRICT : PERAMBALUR.

INDEX

TOPO SHEET NO : 58 I /16

LATITUDE :11°06'54.84"N to 11°06'58.07"N

LONGITUDE :78°50'26.79"E to 78°50'33.65"E

Q.L.APPLIED AREA
10m SAFETY
300M RADIUS
500M RADIUS
1KM RADIUS
APPROACH ROAD
PANCHAYAT ROAD
NATIONAL HIGHWAY
BARREN LAND
AGRICULTURAL LAND
TREES
QUARRY PIT
HABITATION
HILLOCK
TANK
CRUSHER PLANT

LAND USE PATTERN

DESCRIPTION	AREA IN (%)
ROAD	10
TREES	05
BARREN LAND	30
AGRICULTURE	10
HABITATIONS	03
WATER BODIES	12
HILLOCK	30

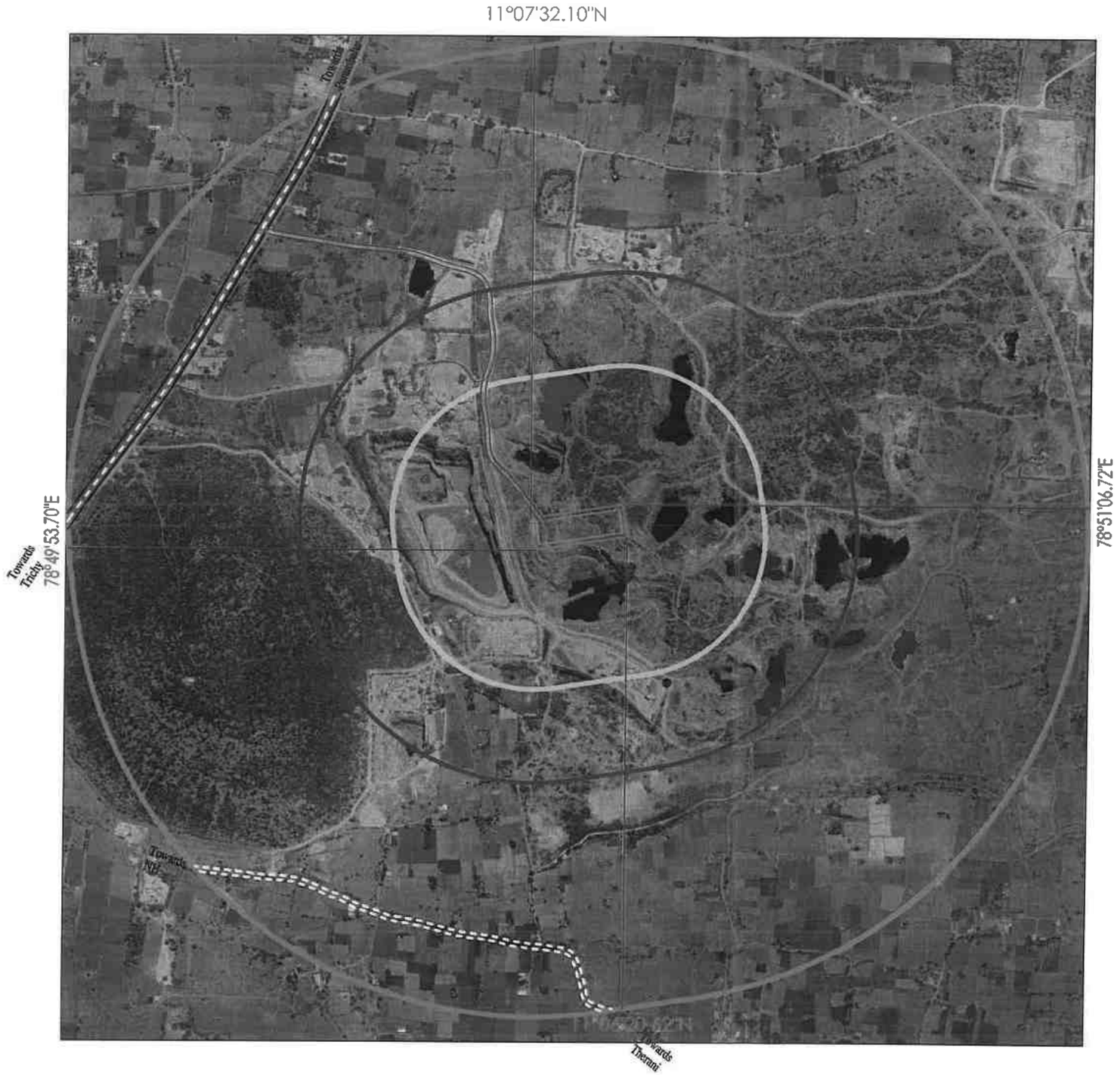
ENVIRONMENTAL PLAN

SCALE 1 : 10,000

PREPARED BY :

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

C.N.ATARAJAN,M.Sc.,M.Phil.,
QUALIFIED PERSON



P. வேல்முருகன்

N

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

PLATE NO-IB
DATE OF SURVEY : 10.05.2025

APPLICANT:
THIRU.P.VELMURUGAN
NO.1,ROYAL MAHALAKSHMI NAGAR,
VIRUDHACHALAM,
CUDDALORE - 606 001.

QUARRY LEASE APPLIED AREA:
S.F.NOs : 10/1(BLOCK-3),
EXTENT : 1.40.0Ha,
VILLAGE : PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

TOPO SHEET NO : 58 I /16

LATITUDE :11°06'54.84"N to 11°06'58.07"N

LONGITUDE :78°50'26.79"E to 78°50'33.65"E

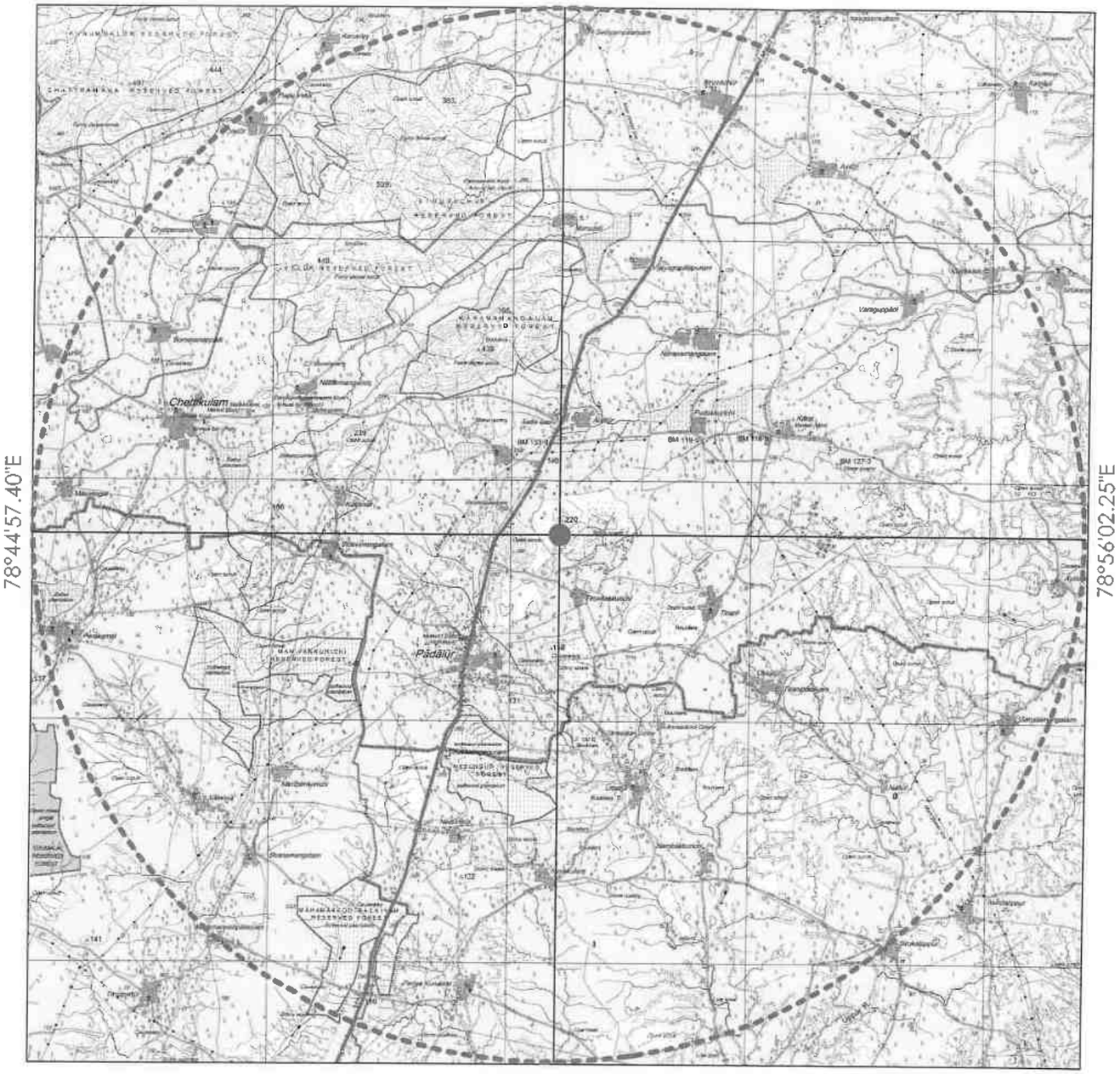
Q.L.APPLIED AREA	
10m SAFETY	
300M RADIUS	
500M RADIUS	
1KM RADIUS	
APPROACH ROAD	
PANCHAYAT ROAD	
NATIONAL HIGHWAY	

SATELLITE IMAGERY MAP
SCALE 1 : 10,000

PREPARED BY :
THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

C.NATARAJAN, M.Sc.,M.Phil.,
QUALIFIED PERSON

11°12'22.83"N



11°01'30.26"N

P. வேல்முருகன்

N

PLATE NO-I C

DATE OF SURVEY : 10.05.2025

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

APPLICANT:

THIRU.P.VELMURUGAN
NO.1,ROYAL MAHALAKSHMI NAGAR,
VIRUDHACHALAM,
CUDDALORE - 606 001.

ESTIMATION OF MINEABLE RESERVES TO THE AREA PROPOSED FOR AUCTION

S.F.NOs : 10/1(BLOCK-3),
EXTENT :1.40.0Ha,
VILLAGE : PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

TOPO SHEET NO : 58 I /16

LATITUDE :11°06'54.84"N to 11°06'58.07"N

LONGITUDE :78°50'26.79"E to 78°50'33.65"E

Q.L.APPLIED AREA

10KM RADIUS



TOPO SKETCH OF QUARRY

LEASE APPLIED AREA FOR 10Km RADIUS

SCALE- 1:100000

PREPARED BY:

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

C.NATARAJAN M.Sc.,M.Phil.,
QUALIFIED PERSON

BLOCK-3		
BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	11° 06' 57.09"N	78° 50' 26.79"E
2	11° 06' 58.07"N	78° 50' 33.31"E
3	11° 06' 55.81"N	78° 50' 33.65"E
4	11° 06' 54.84"N	78° 50' 27.14"E
WGS 84 DATUM		

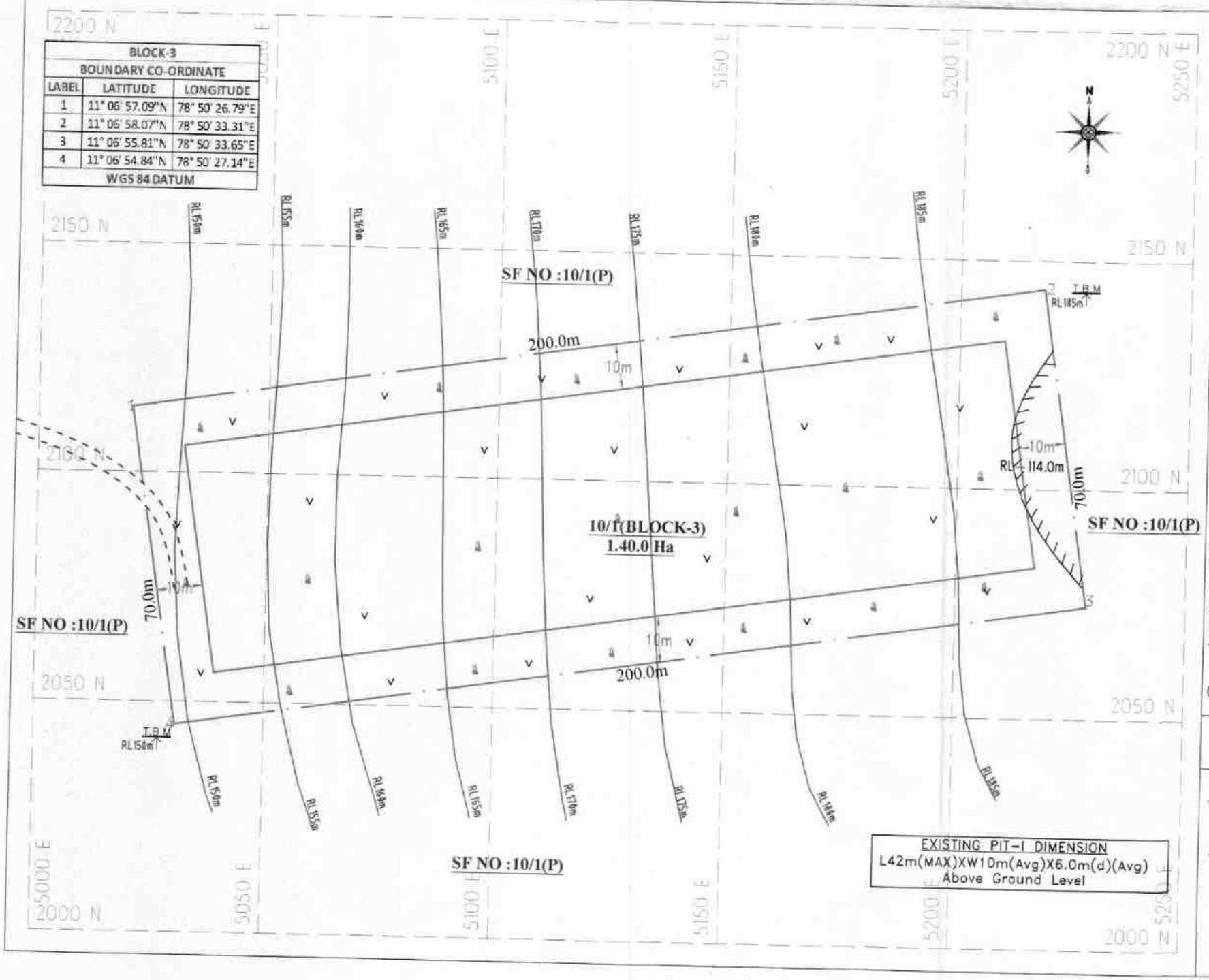


PLATE NO-II

DATE OF SURVEY :10.05.2025

APPLICANT:

THIRU.P.VELMURUGAN
NO.1,ROYAL MAHALAKSHMI NAGAR,
VIRUDHACHALAM,
CUDDALORE - 606 001.

DIRECTOR OF GEOLOGY AND MINING TAMILNADU PERAMBALUR

QUARRY LEASE APPLIED AREA.

S.F.NO : 10/1 (BLOCK-3),
EXTENT : 1.40.0Ha,
VILLAGE :PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

- Q.LEASE APPLIED BOUNDARY
- 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK (T.B.M)
- APPROACH ROAD
- QUARRY ROAD
- CONTOUR
- SCRUB
- TOPSOIL
- QUARRY PIT

QUARRY LEASE & SURFACE PLAN

SCALE 1: 1000

PREPARED BY:

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

C.NATARAJAN.M.Sc,M.Phil.,
QUALIFIED PERSON

P. வேல்முருகன்

BLOCK-3		
BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	11° 06' 57.09"N	78° 50' 26.79"E
2	11° 06' 58.07"N	78° 50' 33.31"E
3	11° 06' 55.81"N	78° 50' 33.65"E
4	11° 06' 54.84"N	78° 50' 27.14"E
WGS 84 DATUM		

N

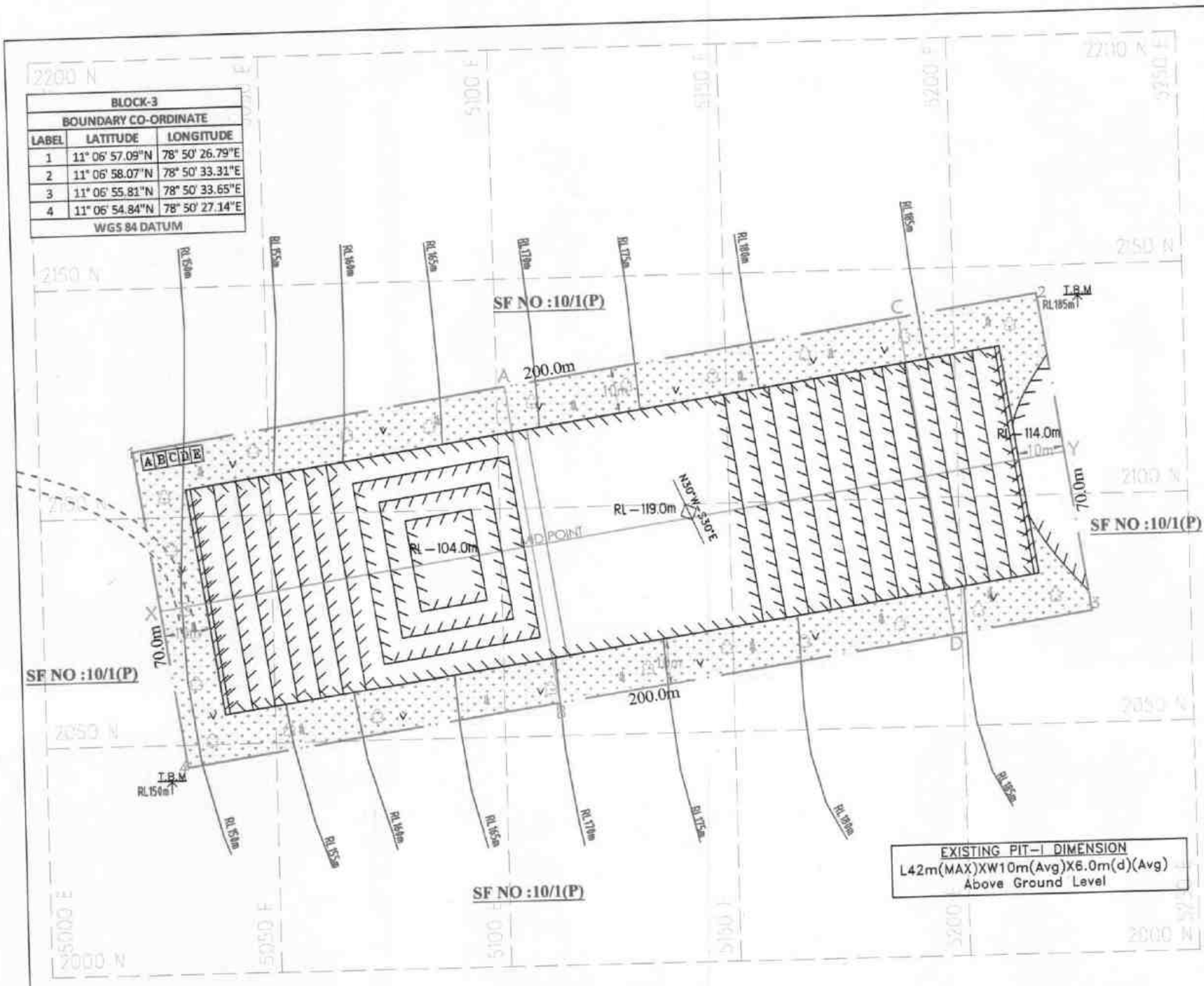
PROPOSED SITE SERVICES

A – OFFICE
B – STORE ROOM
C – FIRST AID ROOM
D – REST SHELTER
E – TOILET

Proposed area to be Planted

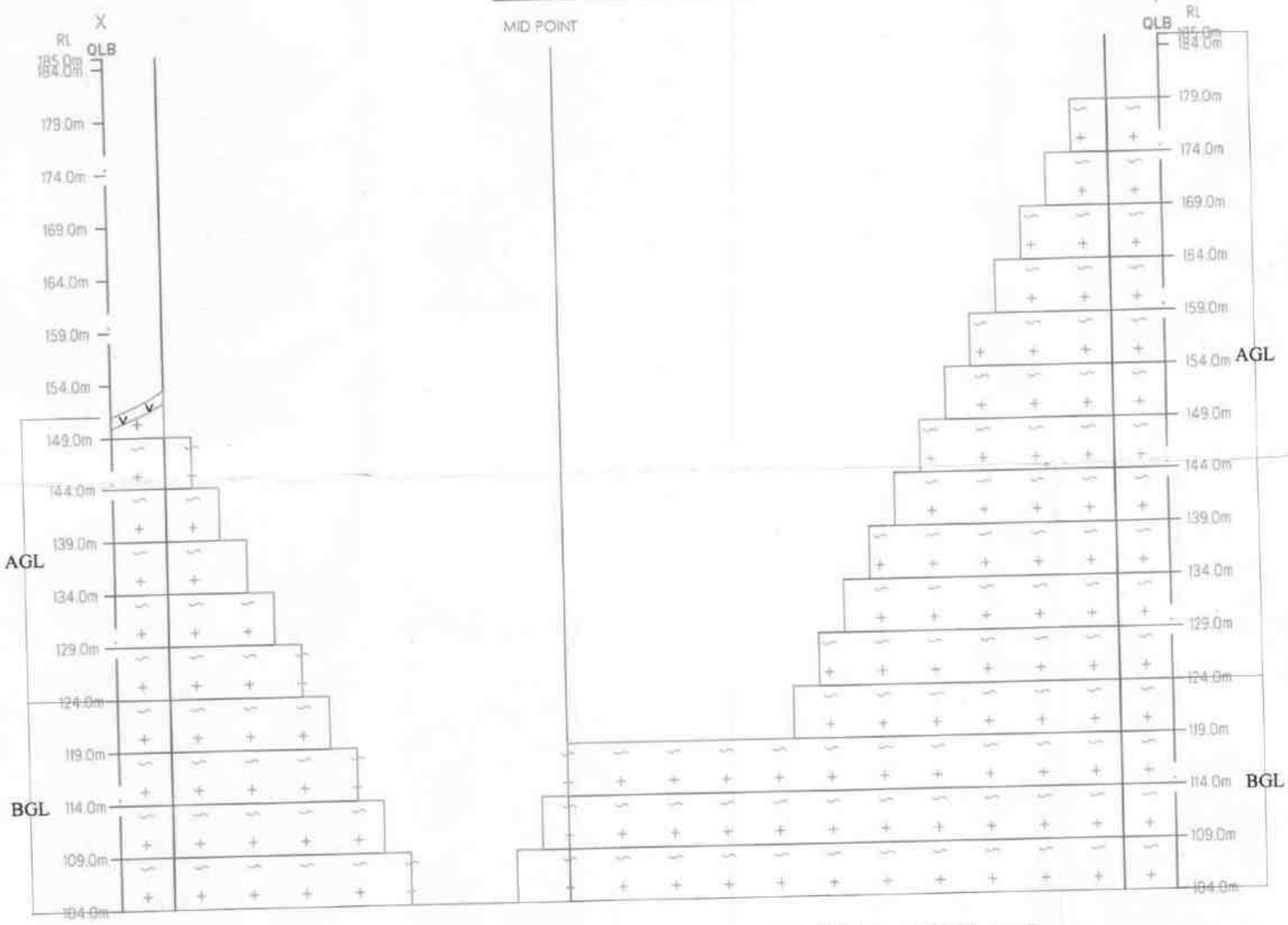
ULTIMATE PIT DIMENSION OF END OF THE QUARRY LEASE PERIOD
L190m(MAX)XW50m(Avg)X81m(d)(Max)
61 Above Ground level
20 Below Ground level

AGL-ABOVE GROUND LEVEL
BGL-BELOW GROUND LEVEL

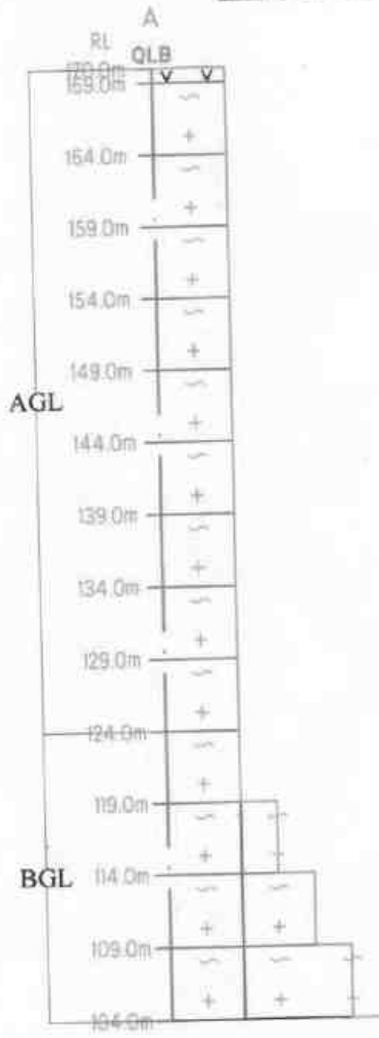


EXISTING PIT–I DIMENSION
L42m(MAX)XW10m(Avg)X6.0m(d)(Avg)
Above Ground Level

SECTION ALONG X–Y



SECTION ALONG A–B



SECTION ALONG C–D

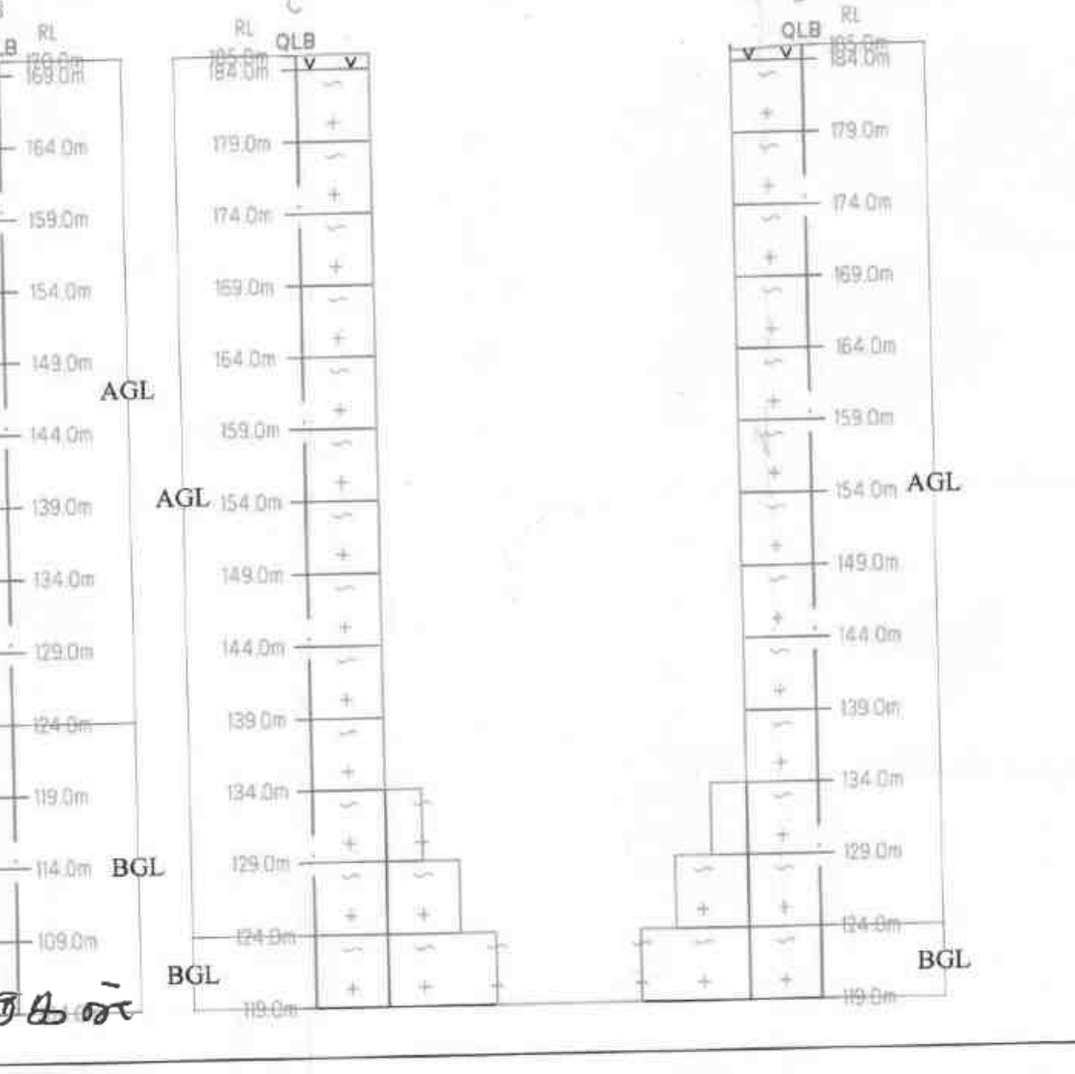


PLATE NO-VI
DATE OF SURVEY : 10.05.2023

APPLICANT:
THIRU.P.VELMURUGAN
NO.1,ROYAL MAHALAKSHMI NAGAR,
VIRUDHACHALAM,
CUDDALORE - 606 001.

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

QUARRY LEASE APPLIED AREA:

S.F.NO : 10/1 (BLOCK-3).
EXTENT : 1.40.0Ha.
VILLAGE :PADALUR EAST.
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

Q.LEASE APPLIED BOUNDARY
10m SAFETY DISTANCE
TEMPORARY BENCH MARK T.B.M
APPROACH ROAD
CONTOUR
SCRUB
TOP SOIL
ROUGH STONE
STRIKE&DIP
PROPOSED QUARRY PIT

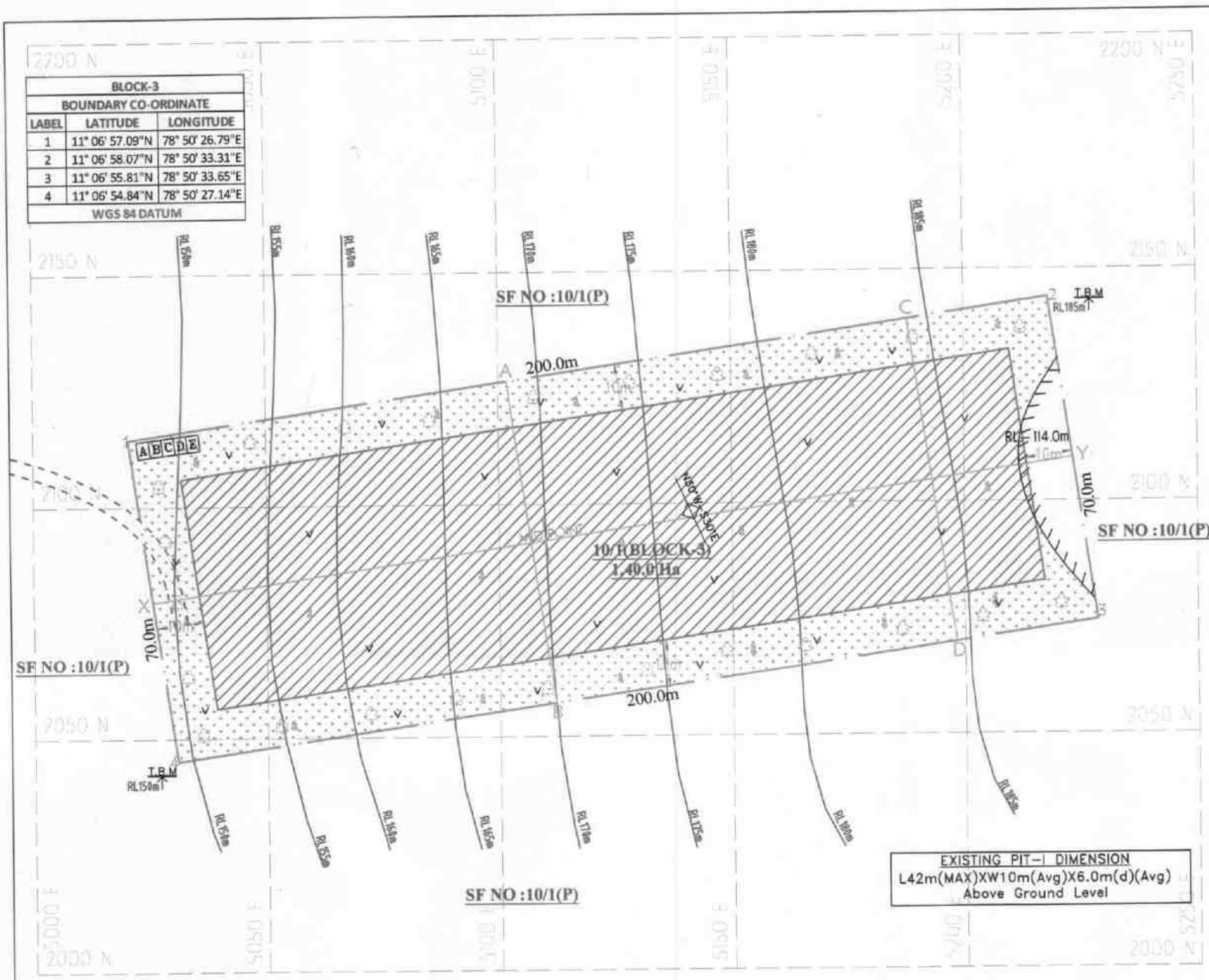
CONCEPTUAL PLAN & SECTION
SCALE 1 : 1000
SECTION HOR 1 : 1000, VER 1: 500

PREPARED BY:

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MA AUTHENTICATED BY STATE GOVERNMENT

C.NATARAJAN,M.Sc,M.Phil.
QUALIFIED PERSON

BLOCK-3		
BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	11° 06' 57.09"N	78° 50' 26.79"E
2	11° 06' 58.07"N	78° 50' 33.31"E
3	11° 06' 55.81"N	78° 50' 33.65"E
4	11° 06' 54.84"N	78° 50' 27.14"E
WGS 84 DATUM		



PROPOSED SITE SERVICES

A – OFFICE
B – STORE ROOM
C – FIRST AID ROOM
D – REST SHELTER
E – TOILET

Proposed area to be Planted

- 1st yr Proposed area to be Quarried
- 2nd yr Proposed area to be Quarried
- 3rd yr Proposed area to be Quarried
- 4th yr Proposed area to be Quarried
- 5th yr Proposed area to be Quarried

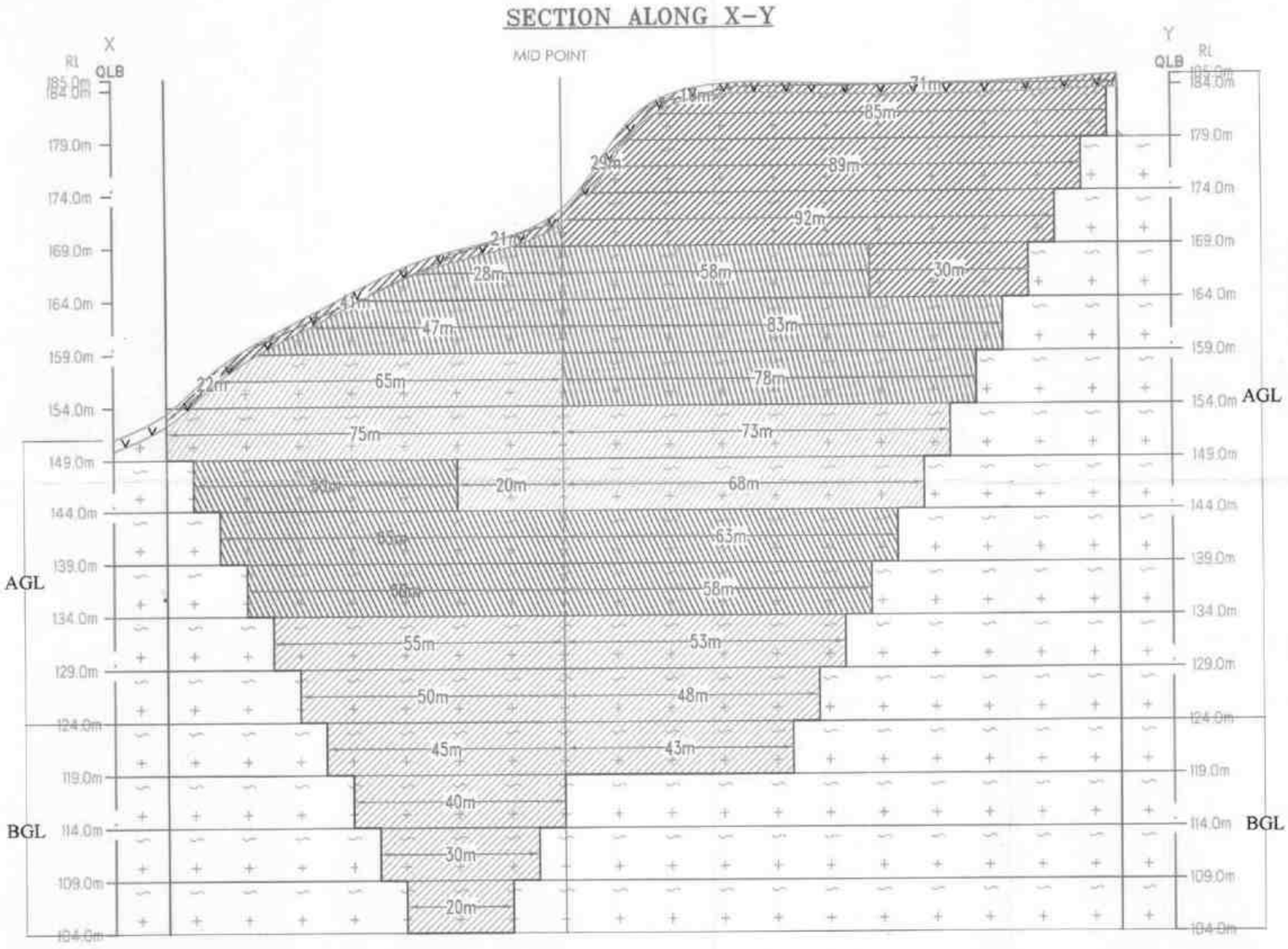
PRESENT & POST LAND USE PATTERN

DESCRIPTION	PRESENT AREA (Ha)	AREA AT THE END OF THIS QUARRYING PERIOD (Ha)
AREA UNDER QUARRYING	0.04.2	0.95.0
INFRASTRUCTURE	Nil	0.01.0
ROADS	Nil	0.01.0
GREEN BELT	Nil	0.43.0
UN-UTILIZED AREA	1.35.8	0.00.0
GRAND TOTAL	1.40.0	1.40.0

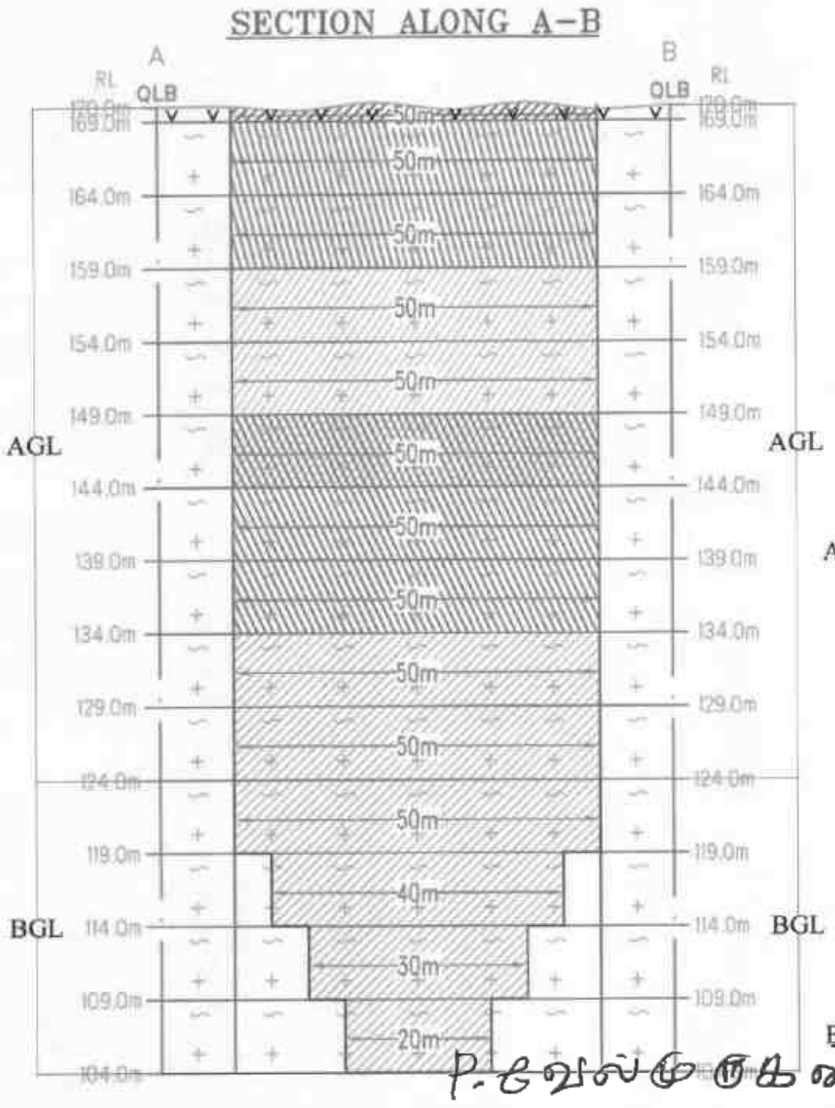
EXISTING PIT-I DIMENSION
L42m(MAX)XW10m(Avg)X6.0m(d)(Avg)
Above Ground Level

AGL-ABOVE GROUND LEVEL
BGL-BELOW GROUND LEVEL

SECTION ALONG X-Y



SECTION ALONG A-B



SECTION ALONG C-D

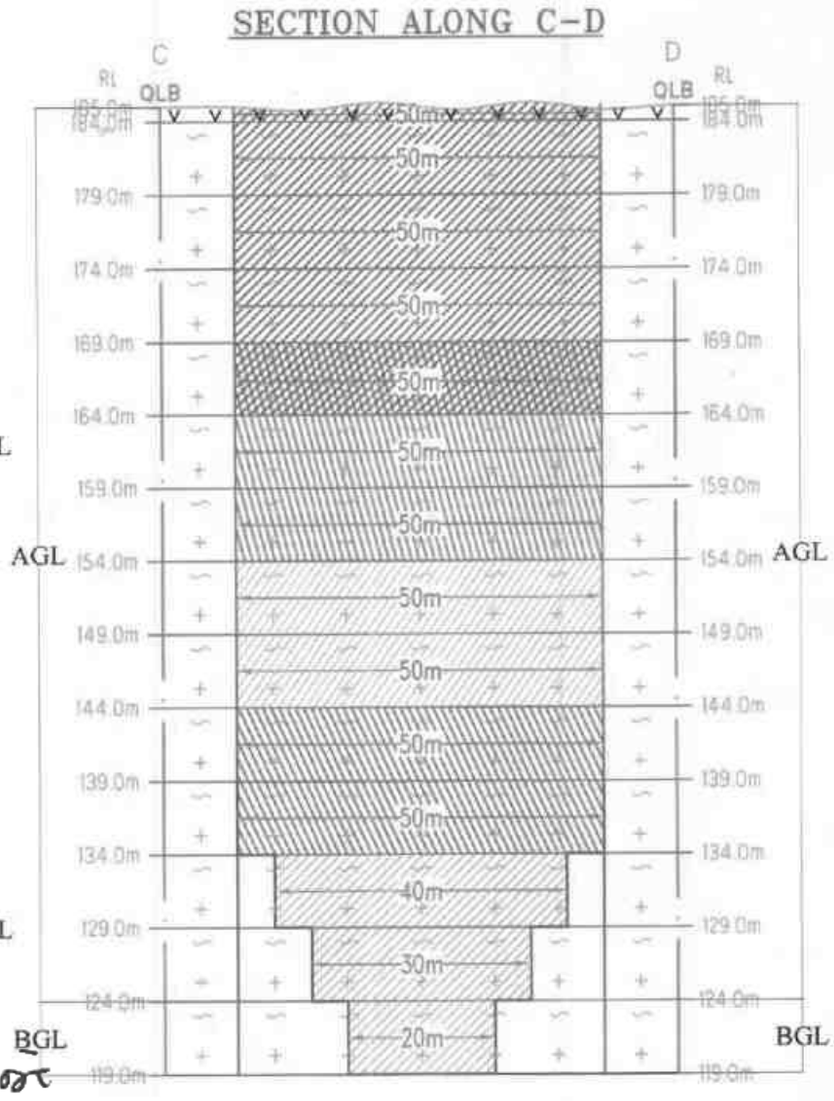


PLATE NO-V
DATE OF SURVEY : 10.05.2015

APPLICANT:
THIRU.P.VELMURUGAN
NO.1,ROYAL MAHALAKSHMI NAGAR,
VIRUDHACHALAM,
CUDDALORE - 606 001.

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

QUARRY LEASE APPLIED AREA:

S.F.NO : 10/1 (BLOCK-3),
EXTENT : 1.40.0Ha,
VILLAGE :PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

- Q.LEASE APPLIED BOUNDARY
- 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK (T.B.M)
- APPROACH ROAD
- CONTOUR
- SCRUB
- TOP SOIL
- ROUGH STONE
- STRIKE&DIP
- QUARRY PIT

YEARWISE DEVELOPMENT & PRODUCTION PLAN & SECTION

SCALE 1 : 1000
SECTION HOR 1 : 1000, VER 1: 500

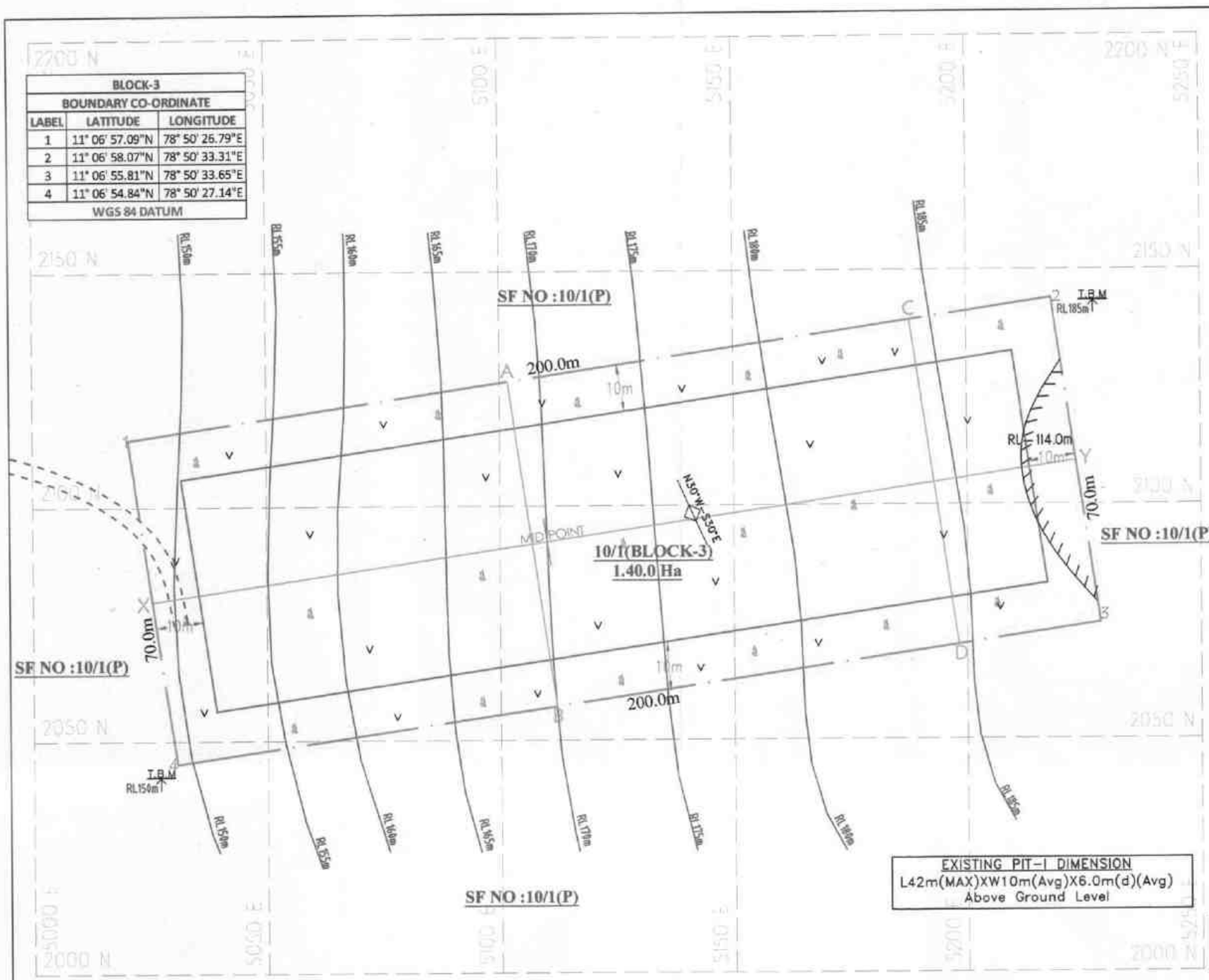
PREPARED BY:

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

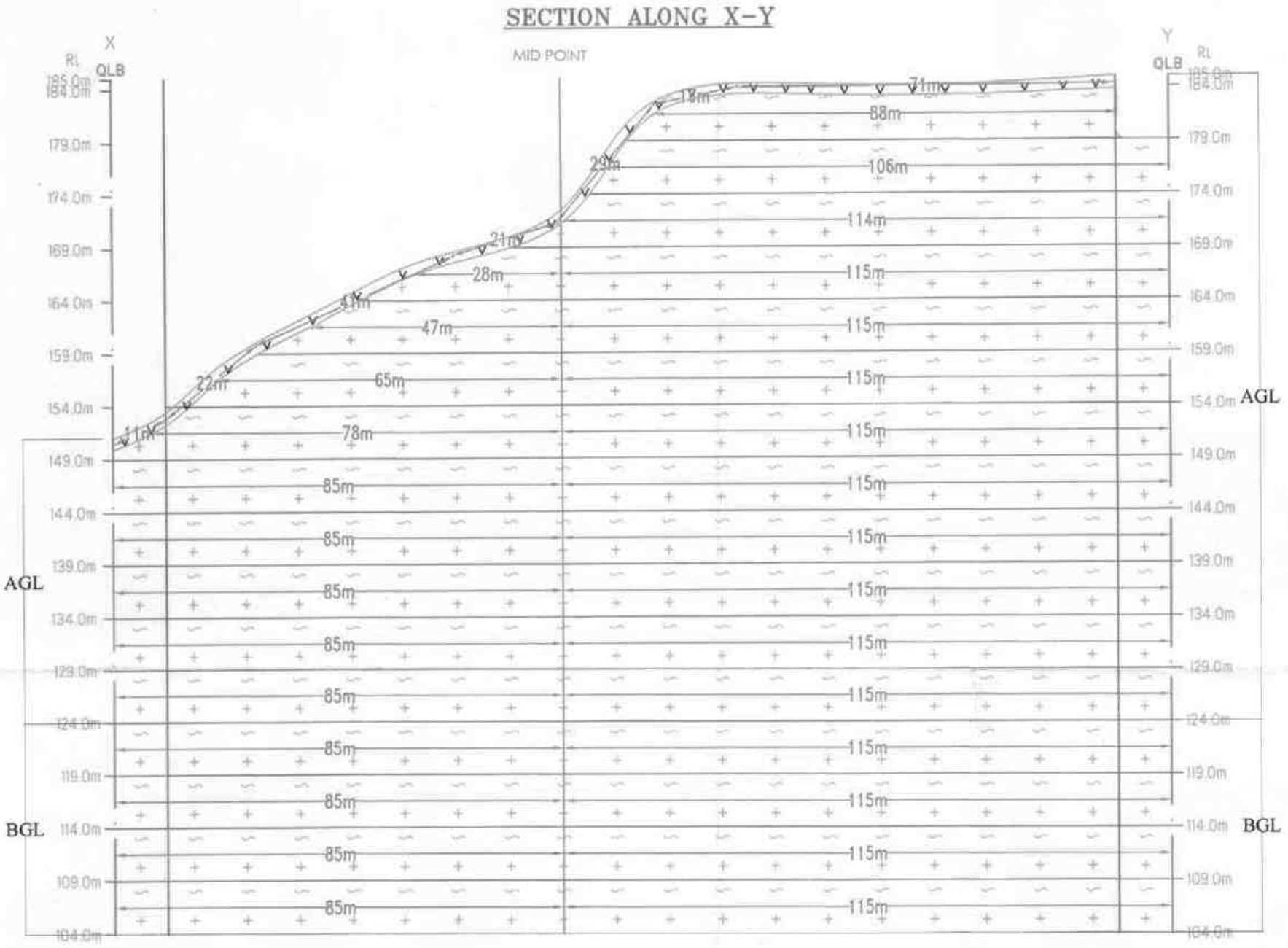
C.NATARAJAN,M.Sc,M.Phil.
QUALIFIED PERSON

P. வெங்கடாசலம்

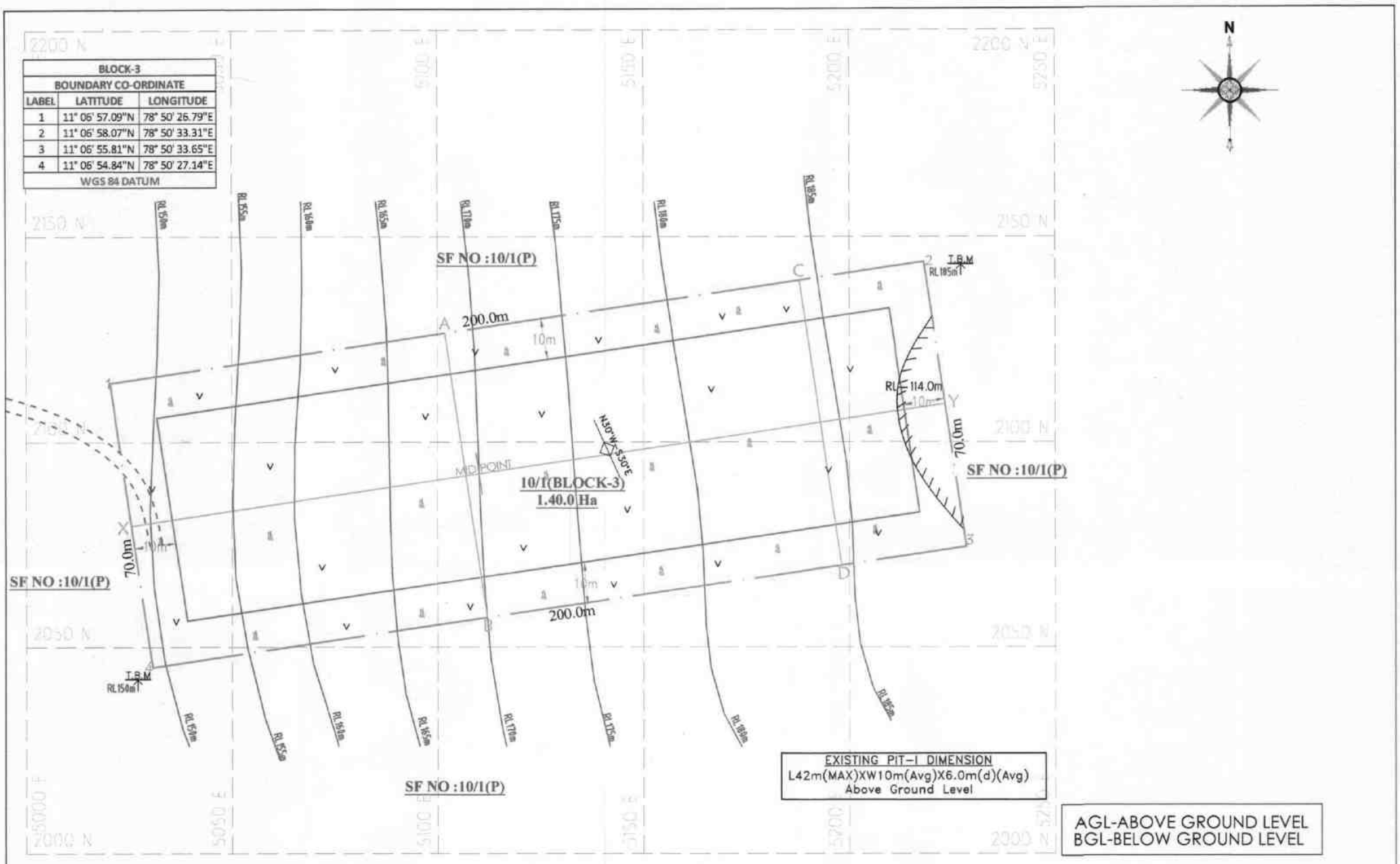
BLOCK-3		
BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	11° 06' 57.09"N	78° 50' 26.79"E
2	11° 06' 58.07"N	78° 50' 33.31"E
3	11° 06' 55.81"N	78° 50' 33.65"E
4	11° 06' 54.84"N	78° 50' 27.14"E
WGS 84 DATUM		



SECTION ALONG X-Y

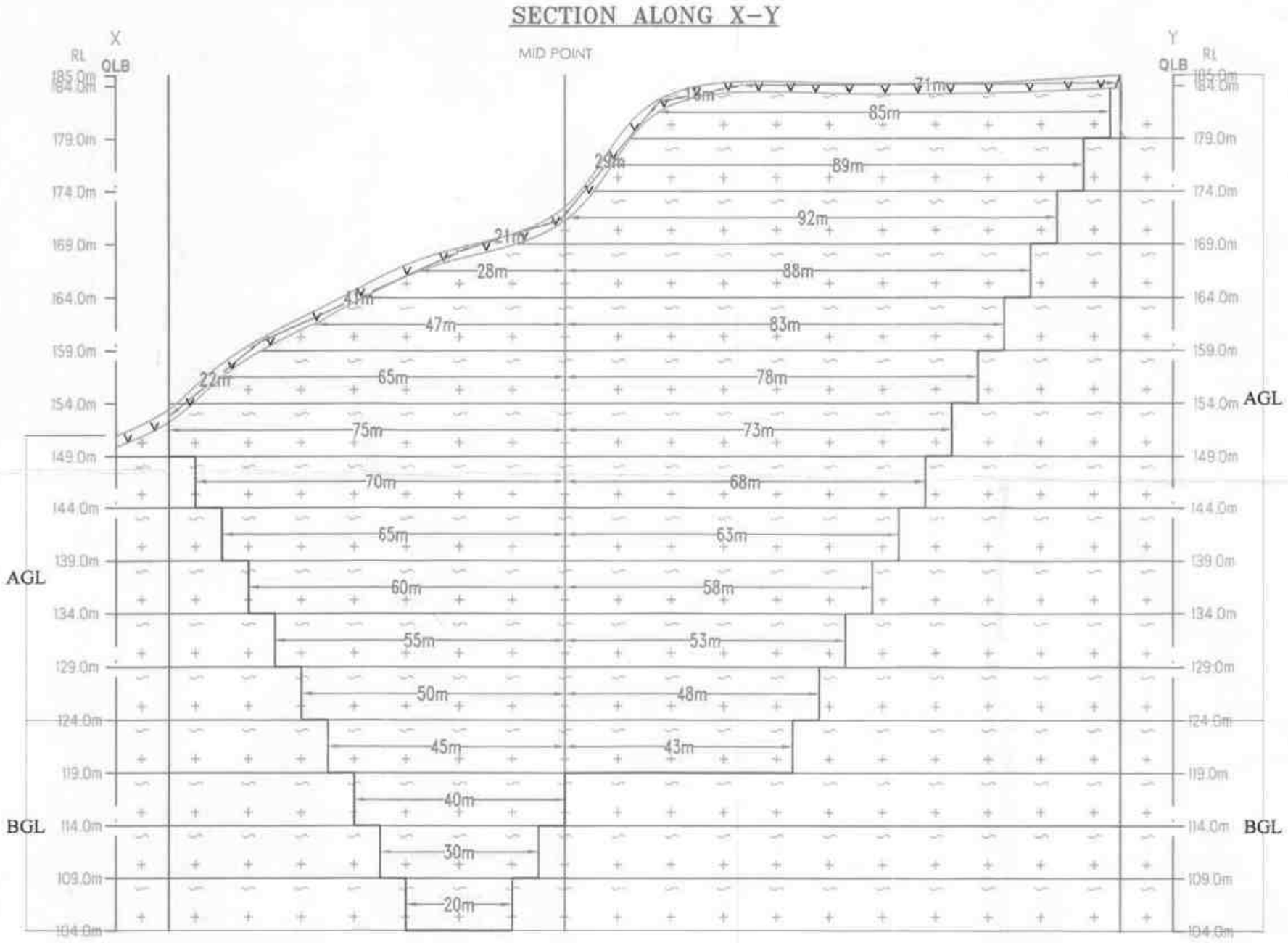

X
Y
QLB
RL
MID POINT
AGL
BGL
11m
22m
41m
47m
65m
78m
85m
85m
85

BLOCK-3		
BOUNDARY CO-ORDINATE		
LABEL	LATITUDE	LONGITUDE
1	11° 06' 57.09"N	78° 50' 26.79"E
2	11° 06' 58.07"N	78° 50' 33.31"E
3	11° 06' 55.81"N	78° 50' 33.65"E
4	11° 06' 54.84"N	78° 50' 27.14"E
WGS 84 DATUM		

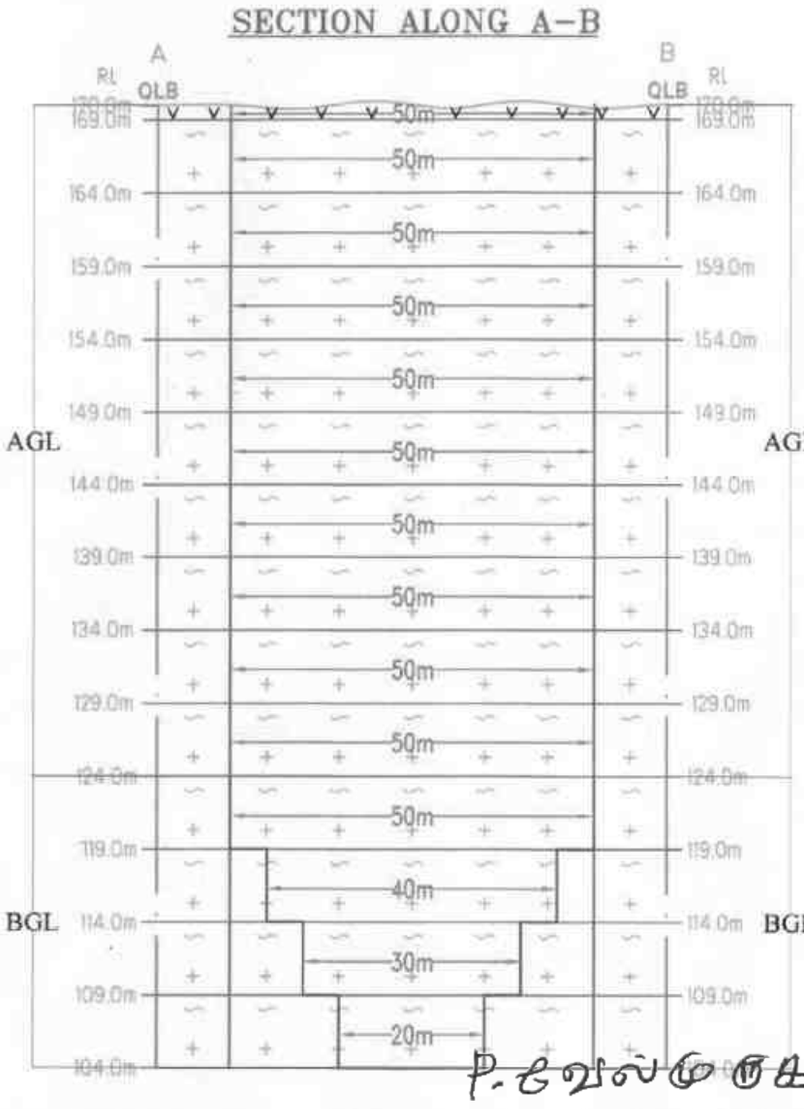


AGL-ABOVE GROUND LEVEL
BGL-BELOW GROUND LEVEL

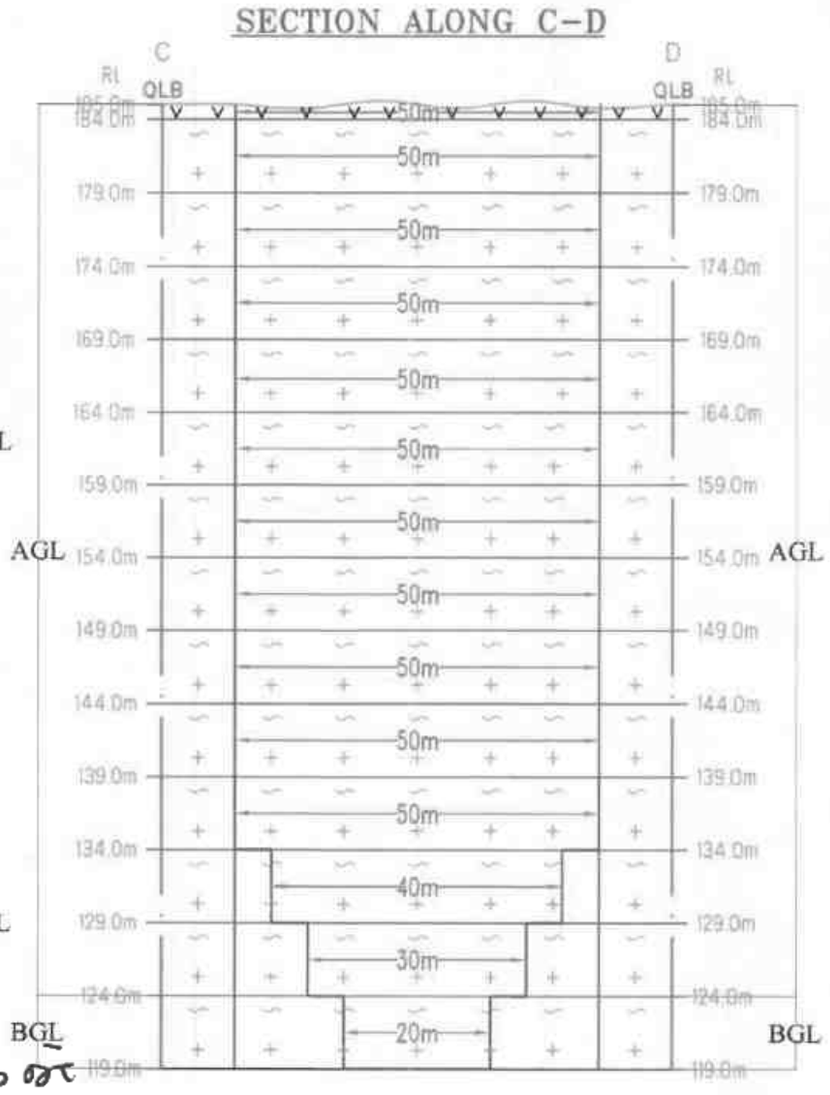
SECTION ALONG X-Y



SECTION ALONG A-B



SECTION ALONG C-D



EXISTING PIT-I DIMENSION
L42m(MAX)XW10m(Avg)X6.0m(d)(Avg)
Above Ground Level

PLATE NO-IV

DATE OF SURVEY : 10.05.2025

APPLICANT:

THIRU.P.VELMURUGAN
NO.1,ROYAL MAHALAKSHMI NAGAR,
VIRUDHACHALAM,
CUDDALORE - 606 001.

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

QUARRY LEASE APPLIED AREA:

S.F.NO : 10/1 (BLOCK-3),
EXTENT : 1.40.0Ha.
VILLAGE :PADALUR EAST,
TALUK : ALATHUR,
DISTRICT : PERAMBALUR.

INDEX

- Q.LEASE APPLIED BOUNDARY
- 10m SAFETY DISTANCE
- TEMPORARY BENCH MARK (T.B.M)
- APPROACH ROAD
- CONTOUR
- SCRUB
- TOP SOIL
- ROUGH STONE
- STRIKE&DIP
- QUARRY PIT

MINEABLE PLAN & SECTIONS

SCALE 1 : 1000
SECTIONS HOR 1:1000, VER 1:500

PREPARED BY:

THIS IS TO CERTIFY THAT THE INFORMATION IN THIS PLATE IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE BASED UPON THE LEASE MAP AUTHENTICATED BY STATE GOVERNMENT

C.NATARAJAN,M.Sc,M.Phil.
QUALIFIED PERSON

P. செல்வமுருகன்

ANNEXURE-4

From

Thiru D.Bernard, M.Sc.,
Assistant Director,
Dept of Geology and Mining,
Perambalur.

To

Thiru. P.Velmurugan
No.1, Royal mahalakshmi Nagar,
Virudhachalam,
Cuddalore -606 001.

Rc.No.125/G&M/2025, Dated:13 .06.2025

Sub: Mines and Minerals - Perambalur District – Rough Stone - e-Tender cum auction conducted for Roughstone quarries in Government lands - Thiru. P.Velmurugan quoted highest Bid amount (H1) For the quarry in S.F.No. 10/1 Block 3, OAE of 1.40.0 hectares in Padalur(East) Village, Alathur Taluk – Declared as H1 bidder – H1 Bid Amount remitted – Precise Area Communicated – Draft Mining Plan submitted for approval -Details of quarries situated within 500 mts radial distance requested – furnished - Reg.

Ref:
1. G.O.(Ms). No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024
2. Perambalur District Gazette(Extraordinary) Notification No.1, dated:18.02.2025.
3. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.120/G&M/2025, dated: 28.03.2025
4. The Assistant Director, Geology and Mining, Perambalur Precise Area Communication letter Rc.No.125/G&M/2025, dated 09.05.2025.
5. Thiru. P.Velmurugan letter dated.05.05.2025.

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The applicant Thiru.P.Velmurugan, Perambalur in the reference 5th cited has requested to provide the details of quarries situated within 500 mts radius distance from the proposed lease area.

Hence the details of existing quarries situated within 500 mts radial distance from the subject area are furnished as follows,

1)Existing quarries:

Sl. No	Name of the Owner	Taluk / Village	S.F.Nos.	Extent	GO. No	Lease Period	Remarks
1	M.Baskaran, S/o.MuthuRediyar Thiruvalakuruchi, Padalur (East) Village, AlathurTaluk, Perambalur District.	Alathur, Padalur (E)	1/7F(P),1/7G(P),1/3(P) etc	1.33.0	Rc.No.96/2021/Mines dated 23.05.2024	23.08.2024 to 22.08.2034	Working

P. வேல்முருகன்

2)Proposed quarries:

Sl. No	Name of the Owner	Taluk / Village	S.F.Nos.	Extent	Lease Period	Remarks
1	Thiru.P.Velmurugan No.1, Royal mahalakshmi Nagar, Virudhachalam, Cuddalore -606 001.	Alathur/ Padalur (East)	10/1 (Block 3)	1.40.0		Instant Proposal
2	Thiru. R.Rajkumar S/o. Rajaram, No.4C, 4th floor, Sivam Sri Madhav, Kuttimani Nagar, Pichandar kovil, Trichy-621 216.	Alathur/ Padalur (East)	10/1 (Block 1)	1.50.0	-	Presently proposed
3	Thiru.Hariharan. L No. 9, Dhanalakshmi Street Postal Nagar, Nemilicheri Chrompet, Kancheepuram District – 600 044.	Alathur/ Padalur (East)	10/1 (Block 2)	1.40.6	-	Presently proposed
4	M/s. Rajamalai Metals No. 3/350 H, Jeya Complex, Main Road, Padalur, Perambalur-621 109.	Alathur/ Padalur (East)	10/1 (Block 4)	1.40.0	-	Presently proposed
5	M/s.SR Mines and Minerals Flat No.2/1, Room No.4,Ramanujam Building,V.N Nagar,	Alathur/ Padalur (East)	10/1 (Block 6)	2.20.0	-	Presently proposed
6	Thiru.M.Thangaraj S/o. Maran, No.158/34A, Abiramapuram west, Collector Office Road, Perambalur -621 212.	Alathur/ Padalur (East)	10/1 (Block 5)	2.10.0	-	Presently proposed
7	M/s.Mars Mines No.24/7, Padalur East, Alathur Taluk, Perambalur -621 109.	Alathur/ Padalur (East)	10/1 (Block 7)	1.30.0	-	Presently proposed
8	Thiru.Vinoth R 44/4 Subbramaniyar Kovil street, Tittakudi, Cuddalore District-606 106.	Alathur/ Padalur (East)	10/1 (Block 8)	1.20.0	-	Presently proposed

P. செல்வகணேஷ்

10	Thiru.P.Velmurugan No.1, Royal mahalakshmi Nagar, Virudhachalam, Cuddalore -606 001.	Alathur/ Padalur (East)	10/1 (Block 13)	1.00.0	-	Presently proposed

3) Expired quarries

Sl. No	Name of the Owner	Taluk / Village	S.F.Nos.	Extent	Lease Period	Remarks
1	Nil					

4) Abandoned quarries:

Sl. No	Name of the Owner	Taluk /Village	S.F.Nos.	Extent	Lease period	Remarks
1	B.Senthilkumar, S/o.P.Balagopal, 454,4th Cross Road, Shanmugam Nagar, Uiyakondam, Thirumalai, Trichirappalli.	Alathur / Padalur(E)	10/1 (Part)	1.00.0	12.04.2006 to 11.04.2016	Further grant of quarry lease is not feasible in these areas.
2	R.Sureshbabu, S/o.V.Rajagopal, No.244, Philomina Nagar, 3rd Street, Nanjikottai Road, Thanjavur.	Alathur / Padalur(E)	10/1 Block 17	1.00.0	23.05.2007 to 22.05.2017	
3	S.N.Vinoba, S/o. S.Nagarajan, 2/163, 2nd cross , Lakshmipuram, Ariyamangalam, Trichy-10	Alathur / Padalur(E)	10/1 Block 5	1.00.0	26.04.2007 to 25.04.2012	
4	M.Raja, S/o. Muthusamy, No.211/1, Mannarpillai Street, Srirangam, Trichy-6	Alathur / Padalur(E)	10/1 Block 3	1.00.0	07.06.2007 to 06.06.2012	
5	D.Raja chithambaram, S/o. Duraisamy, No.236, Reddiyar Street, Sirdevimangalam, Manachanallur Taluk, Trichy District.	Alathur / Padalur(E)	10/1 Block 6	1.00.0	11.05.2007 to 10.05.2012	
6	V.Panneerselvam, S/o.Veerasamy, South Street, Thennamanadu Post, Orathanadu Taluk, Thanjauoor District.	Alathur / Padalur(E)	10/1 ,Block 22	1.00.0	31.05.2011 to 30.05.2021	Further grant of quarry lease is not feasible in these

P. செல்வகுமார்

7	D.Sakthivel, S/o. P.K. Duraisamy, Perumal Kovil Street, Siruvachur, Perambalur.	Alathur / Padalur(E)	10/1 Block No.13	1.20.0	16.05.2007 to 15.05.2012	areas.
8	Thiru.A.T.Natarajan, S/o.Thiru vanaigoundar, Irur Village, AlathurTaluk, Perambalur District.	Alathur / Irur	713/5 etc	1.34.0	28.11.2018 to 27.11.2023	
9	M.Ravi, S/o.Muthukrishnan, No2/78, Malaiyadivaram, Chettikulam Post, Kunnam TK, Perambalur District.	Alathur / Padalur(E)	10/1 Block 20	1.00.0	11.05.2007 to 10.05.2017	
10	K.Mathiyalagan, S/o.Kanagasabi, State Bank Colony, Kumbakonam.	Alathur / Padalur(E)	10/1 Block 18	1.00.0	23.05.2007 to 22.05.2017	

13/6/25

Assistant Director,
Geology and Mining,
Perambalur.

13/6/25

P. உலகநாதன்

ANNEXURE-5

TOPOGRAPHICAL VIEW OF PADALUR (EAST)

ROUGH STONE QUARRY



NAME OF THE APPLICANT :		THIRU.P.VELMURUGAN
EXTENT	:	1.40.0 Ha
S.F.NO	:	10/1 (BLOCK-3)
VILLAGE	:	PADALUR (EAST)
TALUK	:	ALATHUR
DISTRICT	:	PERAMBALUR
STATE	:	TAMIL NADU

VAO SIGN & SEAL
கிராம நிர்வாக அலுவலர்
73 – பாடாளூர் (கிழக்கு),
ஆலத்தூர் வட்டம்,
பெரம்பலூர் மாவட்டம்.

Place: Padalur East

Date: 18.06.2025

P. வேல்முருகன்

பொருளாதார நலன், திருமண உறவு, சமூக அந்தஸ்து
போன்ற காரணங்களை அடிப்படையாக வைத்து :

திருமண நலன், மருத்துவ உறவு,
மருத்துவ ரீதியாக, No 1, அவர் கொலைக்கு முன்
குற்றவாளியை சந்தித்து பல்வேறு கால் பேச்சுகள் எடுத்தல்,
திருமண உறவு, சமூக அந்தஸ்து போன்ற காரணங்களை 10/1
படி 66.56.18 வரையில் பிரிவு - 3 படி 1.40.0
வரையில் கீழ்க்கண்ட விதிகளை வகுத்துள்ளார். மேற்படி
படி எண் 10/1 இன் பிரிவு - 3 ல் குறிப்பிடும்
உயர் பீடம் அந்தஸ்தால் குடும்பத்தை ஆதரிக்கும் ஆற்றல்,
திருமணம், பண்புகள், வயது முதலியவை, மற்றும் உயர்
அந்தஸ்தில் சமூக நிலைகளை எடுத்தல் ஆகும் 506
பிரிவை எல்லை வரை உயர்த்தப்படுகிறது.

R. J. ஜெ.
1/6/25

கிராம நிர்வாக அலுவலர்
73 – பாடாளூர் (கிழக்கு),
ஆலத்தூர் வட்டம்,
பெரம்பலூர் மாவட்டம்.

P. செல்வகணேஷ்

ANNEXURE-6

ANNEXURE I

Rc.No.125/G&M/2025, Dated:09.05.2025

Department of Geology & Mining
Collectorate,
Perambalur – 621212.

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

PRECISE AREA COMMUNICATION LETTER

Sub : Mines and Minerals - Perambalur District – Rough Stone - e-Tender cum auction conducted on 27.03.2025 under Tender ID:2025_CGAM_525779_1 – Thiru.P.Velmurugan (BID ID: 1275146) quoted highest Bid amount (H1) For the quarry listed in Serial Number 25 – Declared as H1 bidder – H1 Bid Amount remitted – Solvency Certificate submitted – Precise Area Communicated – Reg.

Ref:
1. G.O.(Ms).No.21, Natural Resources (MMC.1) Department, Dated 31.07.2024
2. Perambalur District Gazette (Extraordinary) Notification No.1, dated:18.02.2025.
3. E-Tender published under Tender ID:2025_CGAM_525779_1 in Tamil Nadu Governmente-tender portal.
4. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.125/G&M/2025, dated:28.03.2025 (to remit 10% of highest bid amount)
5. Remittance challan No. 20250329001676 dated: 29.03.2025 submitted by Thiru.P.Velmurugan(BID ID:1275146).
6. Notice issued by the Assistant Director of Geology and Mining, Perambalur in Rc.No.125/G&M/2025, dated 01.04.2025 (to remit remaining 90% of the bid amount)
7. Remittance challan No. 20250430011255 dated.30.04.2025 submitted by Thiru.P.Velmurugan(BID ID:1275146).

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I invite your attention to the references cited above

Notice Inviting Tender (NIT) was published vide Perambalur District Gazette Extraordinary Notification No.1, dated.18.02.2025, inviting applications for grant of rough stone quarry leases in Government poramboke lands in Perambalur District through e-Tender cum Auction. Online tender was published in Tamil Nadu Government e-tender portal (https://tntenders.gov.in/) under Tender ID: 2025_CGAM_525779_1 and e-Auction was conducted 27.03.2025 for bidders whos' bids were qualified technically and financially.

After Financial Evaluation, Thiru.P.Velmurugan(BID ID:1275146) was declared as H1 bidder for the quarry listed in Serial Number 25 of the Gazette as he quoted highest bid amount of Rs.5,14,00,000/- for the said quarry. The H1 bidder was directed to remit 10% of the Highest bid amount vide notice in the reference 4th cited and accordingly, the H1 bidder has remitted 10% of the bid amount to a sum of Rs. 51,40,000/- and submitted remittance challan No.20250329001580 dated:29.03.2025 to this office.

P. வேல்முருகன்

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Subsequently, Thiru.P.Velmurugan(BID ID:1275146) was directed to remit the remaining 90% of Highest bid amount after adjusting the Bid Security already paid by him within one month to Government head of account and to submit original remittance challan to this office. Accordingly, Thiru.P.Velmurugan(BID ID:1275146) has remitted Rs.4,40,84,769/-after deducting Rs. 21,75,231/-(the Bid Security amount already paid by the bidder) in Government account within one month and submitted remittance challans to this office.

The details of H1 Bidder for the quarry listed in Serial No.25 of the District Gazette, H1 Bid Amount offered and remittance of Bid amount by bidder are as follows.

1.	**Quarry Detail**	
	Serial No. in District Gazette No.01, dated 18.02.2025.	25
	Taluk	Alathur
	Village	Padalur (East)
	S.F.No.	10/1 Block 3
	Extent	1.40.0 Hectares
	Lease Period	5 Years
2.	**H1 Bidder, Bid Amount Remittance**	
	H1 Bidder	Thiru. P.Velmurugan (BID ID:1275146) No.1, Royal mahalakshmi Nagar, Virudhachalam, Cuddalore -606 001.
	H1 Bid Amount	Rs.5,14,00,000/-
	10% of H1 bid amount remitted	Rs. 51,40,000/- (Challan No. 20250329001676 dated: 29.03.2025)
	Bid Security (EMD) already remitted	Rs. 21,75,231/-
	90% of bid amount paid after adjusting Bid Security already paid	Rs. 4,40,84,769/- (Challan No. 20250430011255, dated.30.04.2025)

The H1 Bidder, Thiru.P.Velmurugan(BID ID:1275146) has remitted entire H1 Bid Amount of Rs.5,14,00,000/- in Government account within one month as per sub- rule 16 of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959

Therefore, in exercise of the powers conferred under sub rule 17(a) of Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959, an extent of 1.40.0 hectares of Government land in S.F.No.10/1 Block 3 of Padalur (East) Village, Alathur Taluk, Perambalur District as notified in Serial Number.24 of the Perambalur District Gazette (Extraordinary) Notification No.1, dated: 18.02.2025 is hereby fixed as Precise Area for grant of permission to quarry Roughstone for a period of 5 years to Thiru. P.Velmurugan(BID ID:1275146), subject to the following conditions

P. வேலுமுருகன்

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

1. 10 meters safety distance should be left out for the adjacent Government lands.
2. The applicant shall not make any hindrance to the adjacent lands and public.
3. The applicant should submit approved Mining Plan, Environment Clearance and Consent to Establish (CTE) & Consent to Operate (CTO) issued by competent authorities for grant of quarrying lease in the subject area.

The applicant Thiru.P.Velmurugan (BID ID:1275146) is directed to submit draft Mining Plan for the above area within 90 days for the approval of the Assistant Director, Geology and Mining, Perambalur and to submit Environment Clearance obtained from SEIAA, Tamil Nadu and CTE & CTO issued by the Tamil Nadu Pollution Control Board subsequently for further process.

Encl: Map showing the proposal lease area.

09.5.25

Assistant Director,
Geology and Mining,
Perambalur.

To
Thiru.P.Velmurugan
(BID ID: 1275146)
No.1, Royal mahalakshmi Nagar,
Virudhachalam,
Cuddalore -606 001.

Copy to:

9/5/26

1. The Chairman,
   SEIAA Level Environment Impact Assessment Authority,
   Panagal Maligai, Saidapet,
   Chennai.
2. The Commissioner of Geology and Mining, Chennai-32.

P. வெல்முருகன்

ANNEXURE 10

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

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Registered No. TN / SRGM – 10

PERAMBALUR DISTRICT GAZETTE

EXTRAORDINARY PUBLISHED BY AUTHORITY

PERAMBALUR, FEBRUARY 18, 2025

No. 1]

[Maasi 06, Kurothi, Thiruvalluvar Aandu - 2056]

NOTIFICATION BY THE COLLECTOR

(Rc. No.35 / G&M / 2022, Dated : 17–02–2025)

E-mail: (minespmb@gmail.com)

Notice Inviting Tender(NIT)

"Inviting Application for Grant of Roughstone Quarry Leases in Government Lands"

In exercise of the power conferred by Section 15 of Mines and Mineral (Development & Regulation) Act, 1957 and in accordance with the Rule 8 of the Tamil Nadu Minor Mineral Concession Rules, 1959 read with G.O. Ms. No.21, Natural Resources (MMC.1), 31st July 2024 as amended from time to time notified thereunder, the District Administration of Perambalur District, Tamil Nadu has identified 44 (Forty four) areas for Roughstone Quarries in Perambalur District as indicated in the Annexure-I.

The E-tender with forward bidding will be conducted through online electronic platform with url address https://tntenders.gov.in and hereby invites applications for the said purpose.

Aspiring applicants can register themselves as bidders using their Digital Signature certificate on the portal https://tntenders.gov.in On Successful registration, bidders will obtain login ID and password necessary for submitting the application and for participation in the e-auction process. **Bidders Manual Kit** in the portal https://tntenders.gov.in provides with all requisite illustrations guiding through various stages of the e-auction process.

The terms and conditions of the e-auction process, details of application fee and bid security amount, detailed information regarding the notified areas, model affidavits to be uploaded in the technical bid are available in the detailed tender document, that can be downloaded free of cost in the portal https://tntenders.gov.in

Intending bidders are advised to visit the mentioned site regularly till closing date of E-auction for any corrigendum / addendum / amendment.

P. உலகநாதன்

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Application Fee – Rs.5,000 (Non – Refundable) for each quarry

Bid submission start date	:	19–02–2025 from 10.00 hrs
Bid Submission end date	:	22–03–2025 upto 16.00 hrs
Financial bid opening andlive e-auction date	:	Will be intimated later on through Tamil Nadu e-Tender portal

ANNEXURE – I

Tender File No.Rc.No.35/G&M/2022, Dated : 17–02–2025

List of Areas Identified in Government lands in Perambalur District of Tamil Nadu for Grant of Rough Stone Quarry Leases through e-Auction.

Sl. No.	Taluk	Name of the Village	SF.No	Extent in Ha	Land Classification	Period of Lease
(1)	(2)	(3)	(4)	(5)	(6)	(7)
1	Perambalur	Kalpadi(N)	328/2 Block 31	1.10.0	Unassessed waste land - Malai	5
2	Perambalur	Kalpadi(N)	328/2 Block 34	1.00.0	Unassessed waste land - Malai	10
3	Perambalur	Kalpadi(N)	328/2 Block 35	1.50.0	Unassessed waste land - Malai	5
4	Perambalur	Kalpadi(N)	328/2 Block 36	1.00.0	Unassessed waste land - Malai	5
5	Perambalur	Kalpadi(N)	328/2 Block 37	1.00.0	Unassessed waste land - Malai	5
6	Perambalur	Kalpadi(N)	328/2 Block 38	1.00.0	Unassessed waste land - Malai	10
7	Perambalur	Chatramanai	23 Part-1	1.10.0	Unassessed waste land – Eli Kundru	5
8	Perambalur	Thurai mangalam	280/13A1 Block-8	1.00.0	Unassessed waste land - Kundru	10
9	Perambalur	Elambalur	27/1A (Block-1)	1.20.0	Unassessed waste land - Malai	5
10	Perambalur	Elambalur	27/1A, (Block-2)	1.80.0	Unassessed waste land - Malai	10
11	Perambalur	Elambalur	27/1A, (Block-3)	2.50.0	Unassessed waste land - Malai	10
12	Perambalur	Aranaral(N)	120/2A1A (Part-1)	1.50.0	Unassessed waste land - Kundru	10
13	Perambalur	Aranaral(N)	120/2A1A (Part-2)	1.50.0	Unassessed waste land - Kundru	10
14	Perambalur	Aranaral(N)	120/2A1A (Part-3)	1.80.0	Unassessed waste land - Kundru	5
15	Perambalur	Sengunam	52/1(Part-1)	1.80.0	Unassessed waste land - Malai	10
16	Perambalur	Sengunam	52/1(Part-2)	1.40.0	Unassessed waste land - Malai	10

P. தமிழ்மணி

DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Sl. No.	Taluk	Name of the Village	SF.No	Extent in Ha	Land Classification	Period of Lease
(1)	(2)	(3)	(4)	(5)	(6)	(7)
17	Perambalur	Sengunam	52/1(Part-3)	1.50.0	Unassessed waste land - Malai	10
18	Alathur	Narana mangalam	300/1 Part	2.02.0	Unassessed waste land - Malai	5
19	Alathur	Narana mangalam	324/1 Block-1	2.00.0	Unassessed waste land - Kallankuthu	5
20	Alathur	Nattar mangalam	195 Part	1.50.0	Unassessed waste land - Kallankuthu	5
21	Alathur	Nattar mangalam	258 Block-1	1.00.0	Unassessed waste land - Malai	5
22	Alathur	Nattar mangalam	258 Block-2	2.00.0	Unassessed waste land - Malai	5
23	Alathur	Padalur(E)	10/1 Block 1	1.50.0	Unassessed waste land - Kallankuthu	5
24	Alathur	Padalur(E)	10/1 Block 2	1.40.60	Unassessed waste land - Kallankuthu	10
25	Alathur	Padalur(E)	10/1 Block 3	1.40.0	Unassessed waste land - Kallankuthu	5
26	Alathur	Padalur(E)	10/1 Block 4	1.40.0	Unassessed waste land - Kallankuthu	5
27	Alathur	Padalur(E)	10/1 Block 5	2.10.0	Unassessed waste land - Kallankuthu	5
28	Alathur	Padalur(E)	10/1 Block 6	2.20.0	Unassessed waste land - Kallankuthu	10
29	Alathur	Padalur(E)	10/1 Block 7	1.30.0	Unassessed waste land - Kallankuthu	5
30	Alathur	Padalur(E)	10/1 Block 8	1.20.0	Unassessed waste land - Kallankuthu	5
31	Alathur	Padalur(E)	10/1 Block 9	1.20.0	Unassessed waste land - Kallankuthu	5
32	Alathur	Padalur(E)	10/1, Block-13	1.00.0	Unassessed waste land - Kallankuthu	5
33	Alathur	Padalur(E)	123 Block 1	1.50.0	Unassessed waste land - Kallankuthu	5
34	Alathur	Padalur(E)	123 Block 2	1.50.0	Unassessed waste land - Kallankuthu	5
35	Alathur	Padalur(E)	123 Block 3	1.50.0	Unassessed waste land - Kallankuthu	5
36	Alathur	Padalur(E)	123 Block 4	2.00.0	Unassessed waste land - Kallankuthu	5
37	Alathur	Padalur(E)	172 Block 1	1.50.0	Unassessed waste land - Kallankuthu	5

P. தமிழ்ச் செல்வன்

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

Sl. No.	Taluk	Name of the Village	SF.No	Extent in Ha	Land Classification	Period of Lease
(1)	(2)	(3)	(4)	(5)	(6)	(7)
38	Alathur	Padalur(E)	172 Block 2	1.50.0	Unassessed waste land - Kallankuthu	5
39	Alathur	Padalur(E)	172 Block 3	1.50.0	Unassessed waste land - Kallankuthu	5
40	Veppanthattai	Vengalam(E)	200/1B Part, Block-13	1.50.0	Unassessed waste land - Malai	10
41	Veppanthattai	Vengalam(E)	200/1C, Part, Block-1	1.40.0	Unassessed waste land - Malai	10
42	Veppanthattai	Vengalam(E)	200/1C, Part, Block-14	1.40.0	Unassessed waste land - Malai	10
43	Veppanthattai	Vengalam(E)	200/1C Part, Block-15	1.50.0	Unassessed waste land - Malai	10
44	Veppanthattai	Vengalam(E)	200/1C Part, Block-16	1.50.0	Unassessed waste land - Malai	10

Perambalur,
17th February 2025.

GRACE PACHUAU,
District Collector.

Printed by the Commissioner of Stationery and Printing at the Government Branch Press, Tiruchirappalli
and published by the Collector of the District. ~
P.ெ2500 ெ4ன

LOCATION OF QUARRY LEASE
BLOCK AREA:
S.F.NO : 10/1,
EXTENT : 69.07.0Hq,
VILLAGE: PADALUR EAST,
TALUK : ALATHUR,
DISTRICT: PERAMBALUR

N

LEASE APPLIED AREA

Assistant Director
Dept. of Geology and Mining
Perambalur

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

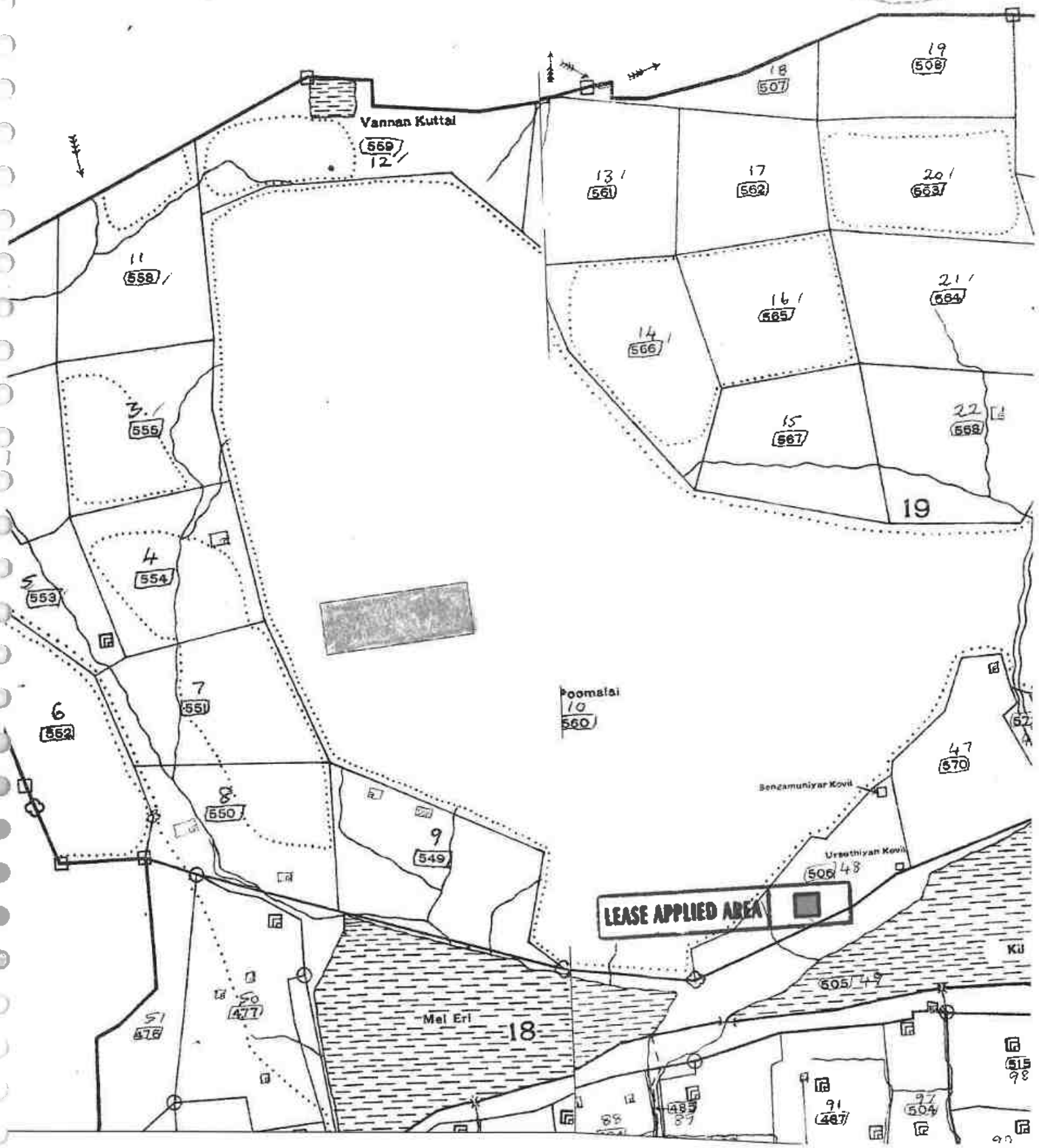
ANNEXURE

ANNEXURE III

DIRECTOR OF GEOLOGY AND MINES PERAMBALUR

PADALUR EAST. VH NO. 1

V. NO



P. செல்லதுரை

1434 ஆம் பசலியில் மாவட்டம் கிராமக் கணக்கு வட்டம்

எண் 2

கிராமத்தில் வருடவாரி புலவாரி கைப்பற்று சாகுபடி அடங்கல் கணக்கு

நில வரித் திட்டத்தின்படி புலன்களின் விபரம்.					கைப்பற்று தாரருடைய பெயரும் எண்ணும் அல்லது அதுபோக தாரருடைய பெயர்.	சாகுபடியாளின் பெயர்.	முதல் போகம்.					இரண்டாம் போகம்.					கீழ்க்கண்டவகையில் பயிரிடப்படாது உள்ள நிலத்தின் தன்மை மற்றும் பரப்பின் விவரங்கள் ஒவ்வொரு நில அளவை எண் அல்லது அதன் பகுதியில்.	பயிர் பார்வையிடும் அலுவலர் குறிப்புரை.
நில அளவை எண்.	உட்பிரிவு எண்	பரப்பு.	தீர்வை.	ஒரு போகம் அல்லது இரு போகம்.		நிலத்தின் சந்த பகுதி மாவது சாகுபடியாளால் பயிரிடப்பட்டுள்ளதா.	எந்த மாதத்தில் பயிர் செய்யப்பட்டது எந்த மாதத்தில் அறுவடை செய்யப்பட்டது	பயிரின் பெயர்.	பயிரான / அறுவடையான பரப்பு.	உள்ளமையான பாய்ச்சல் ஆதாரம்.	விளைச்சல் அளவு விழுக்காடு.	எந்த மாதத்தில் பயிர் செய்யப்பட்டது அறுவடை மாதத்தில் செய்யப்பட்டது.	பயிரின் பெயர்.	பயிரான / அறுவடையான பரப்பு.	உள்ளமையான பாய்ச்சல் ஆதாரம்.	விளைச்சல் அளவு விழுக்காடு.	அரை அலுவலரின் குறிப்புரை :- (1) புலன்களின் பகுதிகளில் இனங்களில் பயிரிப்பட்ட விவரங்கள் அளவில். (2) வகைப்பாடில் இல்லாத நிலங்களின் சாகுபடியின் தன்மையும் (3) முந்தைய மாதத்தில் பாய்ச்சல் உதவியின்றி பயிரிப்பட்டவை என்று பதிவாகியுள்ள நிலங்களுக்கு பிந்தைய மாதங்களில் நீர் பாய்ச்சப்பட்ட விவரங்கள்.	(அ) வனம். (ஆ) பயனற்ற பயிர் செய்ய இயலாத நிலம். (இ) விவசாயம் மற்றும் இதர காரியங்களுக்கு பயன் படுத்தப் படும் நிலம். (ஈ) பயிரிடத்தக்க தரிசு (உ) நிலையான புல் தரைகளும் மற்றும் இதர மேய்ச்சல் நிலங்களும். (ஊ) விதைக்கப்பட்ட நிகர பரப்பில் சேர்க்கப்படாத மரவகைப் பயிர்களும் தோப்புகளும். (எ) நடப்புத் தரிசுகள் (ஏ) இதர தரிசு நிலங்கள்.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(18அ)	(19)
10	1	0.36.5	1		—		—	—									சம்மைக்கப்பட்டுள்ளது		
						12 வருடங்கள்													
							27-6												
								30423											
							அரசு நில அளவை அலுவலர் 73 - பாடலூர் (திருத்தம்) தலைமை அலுவலகம், பெரம்பலூர் மாவட்டம்.												
10	1																		

ANNEXURE IV

ASST. DIRECTOR OF GEOLOGY AND MINING PERAMBALUR

ANNEXURE

ASST. DIRECTOR OF GEOLOGY AND MINING 12 PERAMBALUR

1	2	3	4	5	6	7	8	9	10	11	
							சு.வை	வேறு தூரம்	சு.வை		
8	3A	8-3A	ச	பா	...	8-4	16	1 09	0 26·0	0 28	653 தெ.ரா.வி(1). சு.முத்து சாமி(2).
	3B	-3B	அ	பா	...	8-4	16	1 09	1 26·5	1 37	..... தரிசு.
	4	-4	ச	பா	...	8-4	16	1 09	0 20·0	0 22	653 தெ.ரா.வி(1), சு.முத்தம் மாள்(2). சதுரக் கிணறு
	5	-5	ச	பா	...	8-4	16	1 09	1 22·5	1 33	5 ரா.அமிர்தம் மாள். சதுரக் கிணறு
									3 79·0	3 18	
9	1A	9-1A	அ	பா	...	8-4	16	1 09	0 21·0	0 23	... தரிசு.
	1B	-1B	ச	பா	...	8-4	16	1 09	1 02.5	1 11	604 வீ.ரெங்கம் மாள். சதுரக் கிணறும் கூரைவீடும்.
	1C	-1C	ச	பா	...	8-4	16	1 09	1 43·5	1 56	632 தெ.வீரன் செட்டி.
	2	-2	அ	புற	...	...	...	...	1 73·0	...	..... நீர்ப்பிடிப்பு
									4 40·0	2 90	
10	1	10-1	அ	இ.எ.த	...	...	...	...	66 61.5	...	..... கல்லாங் குத்து.
	2	-2	அ	பா	...	8-4	16	1 09	2 08·5	2 98	..... தரிசு.
									68 70·0	2 98	
11	1	11·1	ச	பா	...	8-4	16	1 09	0 38·0	0 42	65 செ.ராமராஜ்.
	2	-2	அ	புற	...	...	...	...	0 13·5	...	..... வாரி.
	3A	-3A	அ	பா	...	8-4	16	1 09	1 18.0	1 28	..... தரிசு.
	3B1	-3B பா	ச	பா	...	8-4	16	1 09	0 06.0	0 07	128 வீ.ராஜலஷ்மி.
	3B2	-3B பா	ச	பா	...	8-4	16	1 09	0 06.5	0 08	6 வீ.அலமேலு.
	3B3	-3B பா	ச	பா	...	8-4	16	1 09	0 03·0	0 06	376 பொ.சாமிக் கண்ணு.
	3B4	-3B பா	ச	பா	...	8-4	16	1 09	0 03·0	0 06	307 பொ.தங் கையா.

P. செல்வகணேஷ்

1	2	3	4	5	6	7	8	9	10	11	12
							ஏ.வை	நஞ.ஏர்வ்	ஏ.வை.		
8	3A	8-3A	ர	ப	...	8-4	16	1 09	0 26·0	0 28	653 ரெ.ராணி(1). சு.முத்து சாமி(2).
	3B	-3B	ர	ப	...	8-4	16	1 09	1 26·5	1 37	..... தரிசு.
	4	-4	ர	ப	...	8-4	16	1 09	0 20.0	0 22	653 ரெ.ராணி(1), சு.முத்தம் மாள்(2). சதுரக் கிணறு
	5	-5	ர	ப	...	8-4	16	1 09	1 22.5	1 33	5 ரா.அமிர்தம் மாள். சதுரக் கிணறு.
									3 79·0	3 78	
9	1A	9-1A	ஆ	ப	...	8-4	16	1 09	0 21·0	0 23	... தரிசு.
	1B	-1B	ர	ப	...	8-4	16	1 09	1 02.5	1 11	604 வீ.ரெங்கம் மாள். சதுரக் கிணறும் கூரைவீடும்.
	1C	-1C	ர	ப	...	8-4	16	1 09	1 43.5	1 56	633 ரெ.வீரன் செட்டி.
	2	-2	ஆ	புற	...	...	...	...	1 73·0	...	..... நீர்ப்பிடிப்பு
									4 40·0	2 90	
10	1	10-1	ஆ	இ.ச.த	...	...	...	...	66 61.5	...	..... கல்வாய் குத்து.
	2	-2	ஈ	ப	...	8-4	16	1 09	2 08·5	2 98	..... தரிசு.
									68 70·0	2 98	
11	1	11·1	ர	ப	...	8-4	16	1 09	0 38·0	0 42	65 செ.ராமராஜ்.
	2	-2	ஆ	புற	...	...	...	...	0 13·5	...	..... வாரி.
	3A	-3A	ஆ	ப	...	8-4	16	1 09	1 18.0	1 28	..... தரிசு.
	3B1	-3Bபா	ர	ப	...	8-4	16	1 09	0 06.0	0 07	128 வீ.நாராயண்.
	3B2	-3Bபா	ர	ப	...	8-4	16	1 09	0 06.5	0 08	6 வீ.அண்ணாவி.
	3B3	-3Bபா	ர	ப	...	8-4	16	1 09	0 03.0	0 06	176 பொ.சாமிக் கண்ணு.
	3B4	-3Bபா	ர	ப	...	8-4	16	1 09	0 03.0	0 06	307 பொ.தங்கையா.

P. செல்லதுரை

..PADALUR EAST. VILLAGE NO. 1

V. NO

Vannan Kuttai

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Poomalai
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Sengamuniyar Kovil

Urguthiyan Kovil
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505 49

515
98

91
487

97
504

88

P. வெல்லுமகன்

ANNEXURE-7

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram,Chennai- 600045
Phone Number +91 82208 36377 Email: -**info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/1917	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1917	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	04.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	68.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified



Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues&Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

Shrient Analytical and Research Labs Pvt. Ltd

416/15, DhargasRoad, West Tambaram,Chennai- 600045
Phone Number +91 82208 36377 Email: -**info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/1918	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1918	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	04.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues&Complaints: technical@shrientanalytical.com

Terms and conditions:

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Phone Number +91 82208 36377 Email: -**info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/1919	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1919	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	05.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	71.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

.

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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Phone Number +91 82208 36377 Email: -**info@shrientanalytical.com**
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TEST REPORT

Report No.	SARL/25/1920	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1920	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	05.03.2025	Test Completed on	17.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1921	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1921	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	06.03.2025	Test Completed on	17.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1922	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1922	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	06.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1923	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1923	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	07.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1924	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1924	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	07.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1925	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1925	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	08.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1926	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1926	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	08.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1927	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1927	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	08.03.2025	Test Completed on	17.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1928	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1928	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	09.03.2025	Test Completed on	17.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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Phone Number +91 82208 36377 Email: -**info@shrientanalytical.com**
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TEST REPORT

Report No.	SARL/25/1929	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1929	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	09.03.2025	Test Completed on	17.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1930	Report Date.	17.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1930	Sample Received on	10.03.2025
Sample Collected by	LABORATORY	Test Commenced on	10.03.2025
Sample Collected on	09.03.2025	Test Completed on	17.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1971	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1971	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1972	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1972	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1973	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1973	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1974	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1974	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	12.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1975	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1975	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	12.03.2025	Test Completed on	24.03.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/197	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1976	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	11.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1977	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1977	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	13.03.2025	Test Completed on	24.03.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Phone Number +91 82208 36377 Email: -**info@shrientanalytical.com**
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TEST REPORT

Report No.	SARL/25/1978	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1978	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	13.03.2025	Test Completed on	24.03.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/1979	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1979	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	14.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1980	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1980	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	14.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1981	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1981	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	15.03.2025	Test Completed on	24.03.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	66.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1982	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1982	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	15.03.2025	Test Completed on	24.03.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1983	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1983	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	16.03.2025	Test Completed on	24.03.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/1984	Report Date.	24.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-1984	Sample Received on	17.03.2025
Sample Collected by	LABORATORY	Test Commenced on	17.03.2025
Sample Collected on	16.03.2025	Test Completed on	24.03.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2025	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2025	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	18.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	60.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2026	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2026	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	18.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2027	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2027	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	19.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	65.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	31.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2028	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2028	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	19.03.2025	Test Completed on	31.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2029	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2029	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	20.03.2025	Test Completed on	31.03.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2030	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2030	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	20.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2031	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2031	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	21.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2032	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2032	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	21.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2033	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2033	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	22.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2034	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2034	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	22.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2035	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2035	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	22.03.2025	Test Completed on	31.03.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2036	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2036	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	23.03.2025	Test Completed on	31.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2037	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2037	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	23.03.2025	Test Completed on	31.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2038	Report Date.	31.03.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2038	Sample Received on	24.03.2025
Sample Collected by	LABORATORY	Test Commenced on	24.03.2025
Sample Collected on	23.03.2025	Test Completed on	31.03.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2079	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2079	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	25.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2080	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2080	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	25.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2081	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2081	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	25.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2082	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2082	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	26.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2083	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2083	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	26.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2084	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2084	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	26.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2085	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2085	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	27.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2086	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2086	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	27.03.2025	Test Completed on	07.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2087	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2087	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	28.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2088	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2088	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	28.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2089	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2089	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	29.03.2025	Test Completed on	07.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	74.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	35.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2090	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2090	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	29.03.2025	Test Completed on	07.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2091	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2091	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	30.03.2025	Test Completed on	07.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	70.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2092	Report Date.	07.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2092	Sample Received on	31.03.2025
Sample Collected by	LABORATORY	Test Commenced on	31.03.2025
Sample Collected on	30.03.2025	Test Completed on	07.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2133	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2133	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	01.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
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TEST REPORT

Report No.	SARL/25/2134	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2134	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	01.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2135	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2135	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	02.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	62.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2136	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2136	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	02.04.2025	Test Completed on	14.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2137	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2137	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	03.04.2025	Test Completed on	14.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2138	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2138	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	03.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2139	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2139	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	04.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2140	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2140	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	04.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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S. BALAMURUGAN
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TEST REPORT

Report No.	SARL/25/2141	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2141	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	05.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2142	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2142	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	05.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2143	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2143	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	05.04.2025	Test Completed on	14.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2144	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2144	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	06.04.2025	Test Completed on	14.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2145	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2145	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	06.04.2025	Test Completed on	14.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2146	Report Date.	14.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2146	Sample Received on	07.04.2025
Sample Collected by	LABORATORY	Test Commenced on	07.04.2025
Sample Collected on	06.04.2025	Test Completed on	14.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2187	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2187	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	08.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	41.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	19.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2188	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2188	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	08.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2189	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2189	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	08.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2190	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2190	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	09.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2191	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2191	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	09.04.2025	Test Completed on	21.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Phone Number +91 82208 36377 Email: -**info@shrientanalytical.com**
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TEST REPORT

Report No.	SARL/25/2192	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2192	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	09.04.2025	Test Completed on	21.04.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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END OF THE REPORT

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2193	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2193	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	10.04.2025	Test Completed on	21.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2194	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2194	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	10.04.2025	Test Completed on	21.04.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2195	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2195	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	11.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2196	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2196	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	11.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2197	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2197	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	12.04.2025	Test Completed on	21.04.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2198	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2198	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	12.04.2025	Test Completed on	21.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2199	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2199	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	13.04.2025	Test Completed on	21.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	61.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	29.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2200	Report Date.	21.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2200	Sample Received on	14.04.2025
Sample Collected by	LABORATORY	Test Commenced on	14.04.2025
Sample Collected on	13.04.2025	Test Completed on	21.04.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2241	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2241	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	15.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	67.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	32.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2242	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2242	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	15.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2243	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2243	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	16.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	72.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2244	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2244	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	16.04.2025	Test Completed on	28.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2245	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2245	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	17.04.2025	Test Completed on	28.04.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2246	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2246	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	17.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2247	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2247	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	18.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2248	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2248	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	18.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2249	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2249	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	19.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2250	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2250	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	19.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2251	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2251	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	19.04.2025	Test Completed on	28.04.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2252	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2252	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	20.04.2025	Test Completed on	28.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2253	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2253	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	20.04.2025	Test Completed on	28.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2254	Report Date.	28.04.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2254	Sample Received on	21.04.2025
Sample Collected by	LABORATORY	Test Commenced on	21.04.2025
Sample Collected on	20.04.2025	Test Completed on	28.04.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2295	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2295	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	22.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2296	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2296	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	22.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2297	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2297	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	22.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2298	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2298	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	23.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2299	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2299	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	23.04.2025	Test Completed on	05.05.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2300	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2300	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	23.04.2025	Test Completed on	05.05.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2301	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2301	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	24.04.2025	Test Completed on	05.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2302	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2302	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	24.04.2025	Test Completed on	05.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2303	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2303	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	25.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2304	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2304	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	25.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2305	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2305	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	26.04.2025	Test Completed on	05.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2306	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2306	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	26.04.2025	Test Completed on	05.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2307	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2307	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	27.04.2025	Test Completed on	05.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	63.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2308	Report Date.	05.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2308	Sample Received on	29.04.2025
Sample Collected by	LABORATORY	Test Commenced on	29.04.2025
Sample Collected on	27.04.2025	Test Completed on	05.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2349	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2349	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	29.04.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	69.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	33.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2350	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2350	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	29.04.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2351	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2351	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	30.04.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	75.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	36.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2352	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2352	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	30.04.2025	Test Completed on	12.05.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2353	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2353	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	01.05.2025	Test Completed on	12.05.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2354	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2354	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	01.05.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	58.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2355	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2355	Sample Received on	05.05.2025
Sample Collected by	02.05.2025	Test Commenced on	05.05.2025
Sample Collected on	18.04.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2356	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2356	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	02.05.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2357	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2357	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	03.05.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2358	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2358	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	03.05.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	55.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2359	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2359	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	03.05.2025	Test Completed on	12.05.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	44.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2360	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2360	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	04.05.2025	Test Completed on	12.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2361	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2361	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	04.05.2025	Test Completed on	12.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	21.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	6.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2362	Report Date.	12.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2362	Sample Received on	05.05.2025
Sample Collected by	LABORATORY	Test Commenced on	05.05.2025
Sample Collected on	04.05.2025	Test Completed on	12.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2403	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2403	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	06.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	42.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2404	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2404	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	06.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2405	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2405	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	06.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2406	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2406	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	07.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	45.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2407	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2407	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	07.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	53.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2408	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2408	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	07.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	3.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2409	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2409	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	08.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2410	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2410	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	08.05.2025	Test Completed on	19.05.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2411	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2411	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	09.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2412	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2412	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	09.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2413	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2413	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	10.05.2025	Test Completed on	19.05.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	71.0	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	34.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2414	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2414	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	10.05.2025	Test Completed on	19.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2415	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2415	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	11.05.2025	Test Completed on	19.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2416	Report Date.	19.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2416	Sample Received on	12.05.2025
Sample Collected by	LABORATORY	Test Commenced on	12.05.2025
Sample Collected on	11.05.2025	Test Completed on	19.05.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2457	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2457	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	13.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	62.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	30.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	12.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL(D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2458	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2458	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	13.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	25%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	59.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	28.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory
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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2459	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2459	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	14.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.9	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2460	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2460	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	14.05.2025	Test Completed on	26.05.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2461	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2461	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	15.05.2025	Test Completed on	26.05.2025
Temperature	34°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.8	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2462	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2462	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	15.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2463	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2463	Sample Received on	19.05.2025
Sample Collected by	02.05.2025	Test Commenced on	19.05.2025
Sample Collected on	16.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	27%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2464	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2464	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	16.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	52.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2465	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2465	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	17.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	26%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	46.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2466	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2466	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	17.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	7.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2467	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2467	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	17.05.2025	Test Completed on	26.05.2025
Temperature	36°C	Relative Humidity	28%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	48.3	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2468	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2468	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	18.05.2025	Test Completed on	26.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	43.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	20.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2469	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2469	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	18.05.2025	Test Completed on	26.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.6	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.4	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2470	Report Date.	26.05.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2470	Sample Received on	19.05.2025
Sample Collected by	LABORATORY	Test Commenced on	19.05.2025
Sample Collected on	18.05.2025	Test Completed on	26.05.2025
Temperature	35°C	Relative Humidity	32%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	50.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2543	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2543	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	20.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.0	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2544	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2544	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	20.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.3	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.1	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2545	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2545	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	20.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	49.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.4	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.6	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2546	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A5-Alathur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2546	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	21.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	23.2	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2547	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A6-Pudhukkurichi Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2547	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	21.05.2025	Test Completed on	02.06.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	56.4	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.8	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.5	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.4	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2548	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A7-Padalur Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2548	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	21.05.2025	Test Completed on	02.06.2025
Temperature	37°C	Relative Humidity	21%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	47.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	22.6	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	4.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	8.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2549	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2549	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	22.05.2025	Test Completed on	02.06.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.8	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	25.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.0	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2550	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2550	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	22.05.2025	Test Completed on	02.06.2025
Temperature	37°C	Relative Humidity	23%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	57.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	27.5	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2551	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A3-Kolakkanatham Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2551	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	23.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.3	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.7	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	11.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2552	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A4-Padalur West village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2552	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	23.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.1	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.0	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	5.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.9	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2553	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2553	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	24.05.2025	Test Completed on	02.06.2025
Temperature	36°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	76.5	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	36.7	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	8.1	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.5	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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TEST REPORT

Report No.	SARL/25/2554	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2554	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	24.05.2025	Test Completed on	02.06.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	54.7	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	26.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.2	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	10.2	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2555	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A1-Within Mine Lease area
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2555	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	73.2	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	35.1	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	7.8	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	13.3	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2556	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	AMBIENT AIR QUALITY
Sampling Procedure	IS – 5182 (Part – 14: 2000 & Part – V: Reaffirmed - 2003), CPCB Guide lines

Sample Location	A2-Sridevi Mangalam Village
Positioned height of Sampler	1.5 M above Ground Level

Customer Reference	By Mail	Sampling Duration	24 hrs
Sample Reference No	SARL/A/CHE-2556	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Temperature	35°C	Relative Humidity	30%
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results	*Limits
1	Particulate Matter less than 10micron size (PM_{10})	IS:5182: Part 23:2006	$\mu g/m^3$	51.9	100
2	Particulate Matter less than 2.5micron size ($PM_{2.5}$)	IS 5182 (Part 24):2019	$\mu g/m^3$	24.9	60
3	Sulphur dioxide (SO_2)	IS:5182: Part 02:2001	$\mu g/m^3$	6.6	80
4	Nitrogen Dioxide (NO_2)	IS:5182: Part 06:2006	$\mu g/m^3$	9.7	80
5	Carbon monoxide (CO)	SARL/IOP/013 (Issue No:01, Issue Date – 01.03.2023)	mg/m^3	BDL (D.L – 1.1)	-

Remarks: Limits: *National Ambient air quality standards from CPCB. BDL- Below detectable limit. DL –Detectable limit

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2557

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	GW 1 - Within Mine Lease area

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2557	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.89	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	514.5	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	310	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	169	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	42	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	15.4	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	105	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	64.0	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	152	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	70.2	1000

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TEST REPORT

Report No.	SARL/25/2557

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	49.8	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.05	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	BDL(D.L-1.0)	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.11	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2558	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	GW 2-Sridevi Mangalam

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2558	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.84	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1665	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1002	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	354	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	64.4	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	46.3	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	161	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	193	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	327	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	342	1000

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TEST REPORT

Report No.	SARL/25/2558

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	270	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.12	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.14	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.48	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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TEST REPORT

Report No.	SARL/25/2559

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	GW 3-Kolakkanatham

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2559	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.19	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1975	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1186	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	392	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	84	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	43.7	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	210	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	182	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	380	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	365	1000

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TEST REPORT

Report No.	SARL/25/2559

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	342	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.11	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	4.65	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.55	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2560

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	GW 4-Padalur West

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2560	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.91	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	2068	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1240	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	424	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	96.8	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	43.7	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	242	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	182	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	399	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	380	1000

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TEST REPORT

Report No.	SARL/25/2560

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	355	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.12	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	5.23	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.62	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2561

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	GW 5-Alathur

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2561	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits
					Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.45	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1286.0	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	772	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	235	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	57.6	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	21.8	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	144	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	91.0	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	260	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	241	1000

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TEST REPORT

Report No.	SARL/25/2561

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	206	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.04	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	4.32	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.42	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Shrient Analytical & Research Labs Pvt. Ltd Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2562

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	GW 6-Pudhukkurichi

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2562	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.77	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	1989.0	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1194	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	385	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	83.2	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	42.5	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	208	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	177	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	376	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	363	1000

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TEST REPORT

Report No.	SARL/25/2562

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	338	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	BDL(D.L-0.01)	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	5.62	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.63	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2563	Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	GW 7-Padalur

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2563	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
A.	**Physical parameters**				
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0	5.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.36	6.50-8.50
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	2137	-
B.	**Chemical parameters**				
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	1282	2000
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	454	600
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	102	200
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	47.5	100
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	256	-
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	198	-
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	392	600
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	510	1000

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TEST REPORT

Report No.	SARL/25/2563

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result	*Limits Permissible
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)	1.0
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	212	400
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.03	0.3
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	5.51	45
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.58	1.5
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL (D.L - 0.05)	0.3

Remarks: *Drinking Water Specifications as per IS – 10500:2012. BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2564

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	SW 1-Nattaramangalam Eri

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2564	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.06.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.52
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	218.6
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	132
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	47.2
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	10.56
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	4.99
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	26.4
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	20.8
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	45.6
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	42.8

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TEST REPORT

Report No.	SARL/25/2564

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	15.2
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.15
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	BDL(D.L-1.0)
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.21
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL(D.L-0.05)
19	Chemical Oxygen Demand	APHA 24th Edition 5220 B: 2023	mg/L	BDL (D.L – 4.0)
20	Bio Chemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	BDL (D.L – 2.0)
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	22.0
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	5.8

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2565

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	SW 2-Nanthai River (up Stream)

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2565	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.06.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.94
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	167.9
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	102
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	35.2
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	10.36
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	2.23
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	25.9
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	9.30
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	37.2
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	40.8

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TEST REPORT

Report No.	SARL/25/2565

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	16.9
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.12
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	2.14
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.45
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL(D.L-0.05)
19	Chemical Oxygen Demand	APHA 24th Edition 5220 B: 2023	mg/L	BDL (D.L – 4.0)
20	Bio Chemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	BDL (D.L – 2.0)
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	12.0
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	6.1

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2566

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	WATER
Sample Mark	SW 3 -Nanthai River (Down Stream)

Customer Reference	By Mail	Sampling Procedure	IS 17614: Part 14: 2021
Sample Reference No	SARL/W/CHE-2566	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.06.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

Sl. No.	Parameters	Protocol	Unit	Result
A.	**Physical parameters**			
1	Odour	IS 3025 (Part 5): 2018	-	Agreeable
2	Turbidity	APHA 24th Edition 2130 B: 2023	NTU	<1.0
3	pH at 25 ˚C	APHA 24th Edition 4500 – H+ B: 2023	-	7.85
4	Electrical Conductivity	APHA 24th Edition 2510 B: 2023	(µS/cm)	192.3
B.	**Chemical parameters**			
5	Total Dissolved Solids	APHA 24th Edition 2540-C: 2023	mg/L	115
6	Total hardness (as CaCO3)	APHA 24th Edition 2340 C: 2023	mg/L	42.5
7	Calcium (as Ca)	IS 3025 (Part 40): 1991	mg/L	9.8
8	Magnesium (as Mg)	IS 3025 (Part 46): 1994	mg/L	4.3
9	Calcium Hardness (as CaCO3)	APHA 24th Edition 3500 Ca B: 2023	mg/L	24.5
10	Magnesium Hardness (as CaCO3)	APHA 24th Edition 3500 Mg B: 2023	mg/L	18.0
11	Total alkalinity (as CaCO3)	APHA 24th Edition 2320 B: 2023	mg/L	42.2
12	Chloride (as Cl)	APHA 24th Edition 4500 Cl- B: 2023	mg/L	39.8

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TEST REPORT

Report No.	SARL/25/2566

Report Date.	02.06.2025

Sl. No.	Parameters	Protocol	Unit	Result
13	Free Residual chlorine	APHA 24th Edition 4500 Cl- B: 2023	mg/L	BDL (D.L - 0.2)
14	Sulphate as (SO42-)	APHA 24th Edition 4500 SO42- E: 2023	mg/L	16.1
15	Iron (as Fe)	APHA 24th Edition 3500 Fe B: 2023	mg/L	0.1
16	Nitrate (as NO3)	IS 3025 (Part 34): 1988	mg/L	1.95
17	Fluoride (as F)	APHA 24th Edition 4500 F- D: 2023	mg/L	0.42
18	Manganese (as Mn)	APHA 24th Edition 3500 Mn B: 2023	mg/L	BDL(D.L-0.05)
19	Chemical Oxygen Demand	APHA 24th Edition 5220 B: 2023	mg/L	BDL (D.L – 4.0)
20	Bio Chemical Oxygen Demand 3 Days at 27°c	IS 3025 (Part 44): 1993	mg/L	BDL (D.L – 2.0)
21	Total Suspended Solids	APHA 24th Edition 2540 D: 2023	mg/L	10.0
22	Dissolved Oxygen	IS 3025 (Part 38): 1989	mg/L	6.3

Remarks: BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2557

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S1-Within Mine Lease area

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2557	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.24
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	172.5
3	Dry matter content	IS 15106: 2002	%	94.58
4	Water Content	IS 15106: 2002	%	5.42
5	Organic Matter	IS 2720: Part 22: 1972	%	0.86
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	285
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay loam
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	16.05
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	45.22
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	38.73
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.42
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	310
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	590
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	19.2
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	40

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2558

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S2-Sridevi Mangalam Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2558	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.94
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	290.8
3	Dry matter content	IS 15106: 2002	%	96.52
4	Water Content	IS 15106: 2002	%	3.48
5	Organic Matter	IS 2720: Part 22: 1972	%	0.95
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	405
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	10.42
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	44.33
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	45.25
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.62
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	322
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	664
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	19.4
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	38

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2559

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S3-Kolakkanatham Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2559	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	8.06
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	220.4
3	Dry matter content	IS 15106: 2002	%	97.21
4	Water Content	IS 15106: 2002	%	2.79
5	Organic Matter	IS 2720: Part 22: 1972	%	0.82
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	146
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	8.55
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	42.75
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	48.7
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.24
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	346
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	735
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	17.9
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	40

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2560

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S4-Padalur West village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2560	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.95
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	273.5
3	Dry matter content	IS 15106: 2002	%	86.54
4	Water Content	IS 15106: 2002	%	13.46
5	Organic Matter	IS 2720: Part 22: 1972	%	1.32
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	205
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	17.05
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	38.97
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	43.98
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.67
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	498
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	904
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	17.1
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	47

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2561

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S5-Alathur Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2561	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.89
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	190.2
3	Dry matter content	IS 15106: 2002	%	97.25
4	Water Content	IS 15106: 2002	%	2.75
5	Organic Matter	IS 2720: Part 22: 1972	%	0.77
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	254
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	13.22
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	42.76
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	44.02
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.36
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	535
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	1030
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	18.9
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	42

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2562

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S6-Pudhukkurichi Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2562	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	8.12
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	295.6
3	Dry matter content	IS 15106: 2002	%	93.67
4	Water Content	IS 15106: 2002	%	6.33
5	Organic Matter	IS 2720: Part 22: 1972	%	0.95
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	312
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	10.79
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	45.66
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	43.55
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.61
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	420
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	634
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	18.2
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	40

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2563

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	SOIL
Sample Mark	S7-Padalur Village

Customer Reference	By Mail	Sampling Procedure	-
Sample Reference No	SARL/SO/CHE-2563	Sample Received on	26.05.2025
Sample Collected by	LABORATORY	Test Commenced on	26.05.2025
Sample Collected on	25.05.2025	Test Completed on	02.06.2025
Sample Condition	Fit for Analysis		

S. No.	Parameters	Protocol	Unit	Results
1	pH at 25 °C	IS 2720: Part 26: 1987	-	7.92
2	Electrical Conductivity	IS 14767: 2000	µmhos/cm	265.7
3	Dry matter content	IS 15106: 2002	%	92.58
4	Water Content	IS 15106: 2002	%	7.42
5	Organic Matter	IS 2720: Part 22: 1972	%	1.03
6	Nitrogen and Nitrogenous compounds	IS 14684: 1999	mg/kg	175
7	Soil Texture	Methods Manual - Soil testing in India - P. No-67: 2011	%	Silty Clay
8	Grain Size Distribution i. Sand	Methods Manual - Soil testing in India - P. No-67: 2011	%	7.89
	ii. Silt	Methods Manual - Soil testing in India - P. No-67: 2011	%	41.32
	iii. Clay	Methods Manual - Soil testing in India - P. No-67: 2011	%	50.79
9	Phosphorus as P	IS 10158: 1982	mg/kg	1.74
10	Sodium as Na	USEPA 3050 B: 1996	mg/kg	396
11	Potassium as K	USEPA 3050 B: 1996	mg/kg	652
12	Total soluble sulphates	IS 2720: Part 27: 1977	%	BDL (D.L.0.02)
13	Porosity	SARL/SOP/SO/001 (Issue No:01, Issue Date – 01.03.2023): 2023	%	17.3
14	Water holding capacity	Methods Manual - Soil testing in India - P. No-76: 2011	Inches/foot	42

BDL – Below Detectable limit (DL - Detectable limit).

For Shrient Analytical and Research Labs Pvt. Ltd

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Authorized Signatory

S. BALAMURUGAN
Asst.Technical Manager

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TEST REPORT

Report No.	SARL/25/2564

Report Date.	02.06.2025

Customer Name & Address	Thiru.P.Velmurugan (Rough Stone Quarry) , at S.F.No.10/1 (Block-3) over an extent of 1.40.0 Ha., in Padalur (East) Village, Alathur Taluk, Perambalur District, Tamil Nadu State.
Sample Description	NOISE LEVEL DATA

Customer Reference	As per work order	Sampling Method	SARL/IOP/023
Sample Reference No	SARL/NO/CHE-2564	Date of Monitoring	24.03.2025/ 25.03.2025
Sample Collected by	LABORATORY		

Time in hrs	N1	N2	N3	N4	N5	N6	N7
06.00	42.4	38.5	41.4	42.3	39.9	49.0	49.1
07.00	43.9	39.9	39.1	44.9	42.4	51.3	52.7
08.00	45.7	43.0	42.4	43.3	43.0	49.8	53.5
09.00	49.1	45.0	43.8	46.9	46.8	49.6	52.1
10.00	51.0	47.4	50.8	49.0	44.6	48.6	52.6
11.00	52.7	49.3	49.9	51.8	44.0	47.8	50.8
12.00	53.6	53.7	46.6	53.0	42.8	45.6	47.3
13.00	55.4	55.1	47.5	49.3	47.3	47.9	46.7
14.00	56.7	52.8	53.1	46.9	44.5	53.5	49.6
15.00	54.1	54.0	52.9	44.8	47.9	47.3	52.8
16.00	59.6	50.9	51.5	48.9	45.8	49.3	53.7
17.00	57.7	50.1	52.9	47.9	44.8	48.6	53.5
18.00	52.5	50.9	49.6	46.0	48.0	50.0	48.9
19.00	51.3	44.8	46.0	46.6	47.1	51.7	43.6
20.00	50.5	40.9	45.4	44.0	40.0	46.3	41.2
21.00	47.4	39.9	43.5	42.3	38.9	46.7	37.5
22.00	44.5	39.3	45.0	42.9	37.8	50.7	39.2
23.00	41.0	39.0	43.1	41.3	36.1	39.7	39.8
24.00	39.9	38.6	40.9	40.4	37.6	39.8	38.8
01.00	39.1	37.6	42.4	41.8	36.3	38.1	39.1
02.00	40.3	37.3	41.4	41.0	35.1	38.7	38.3
03.00	38.2	37.8	40.4	41.1	37.5	37.4	39.6
04.00	41.1	37.5	39.6	39.7	38.3	38.6	39.9
05.00	42.3	38.9	39.0	39.3	39.7	38.1	38.6

Shrient Analytical and Research Labs Pvt. Ltd

416/15, Dhargas Road, West Tambaram, Chennai- 600045
Phone Number +91 82208 36377 Email: - **info@shrientanalytical.com**
www.shrientanalytical.com

TEST REPORT

Report No.	SARL/25/2564

Report Date.	02.06.2025

	N1	N2	N3	N4	N5	N6	N7
DAY EQUIVALENT	**53.7**	**50.0**	**49.1**	**47.9**	**45.1**	**49.4**	**50.8**
NIGHT EQUIVALENT	**41.2**	**38.3**	**41.9**	**41.1**	**37.5**	**43.3**	**39.2**
DAY & NIGHT EQUIVALENT	**52.1**	**48.4**	**47.8**	**46.5**	**43.7**	**48.2**	**49.2**

Remarks:

LOCATIONS:

N1-Within Mine Lease area
N2-Sridevi Mangalam Village
N3-Kolakkanatham Village
N4-Padalur West village
N5-Alathur Village
N6-Pudhukkurichi Village
N7-Padalur Village

For Shrient Analytical and Research Labs Pvt. Ltd

Verified

Shrient Analytical & Research Labs Pvt. Ltd. Chennai - 45

Authorized Signatory
S. BALAMURUGAN
Asst.Technical Manager

*****END OF THE REPORT*****

Please Contact:
For any Technical Issues & Complaints: technical@shrientanalytical.com

Terms and conditions:

(1) The test items will not be retained for more than 15 days from the date of issue of test report. (2) The results relate only to the items tested (3) The test report shall not be reproduced except in full without the written approval of the laboratory (4) Any use for advertising purposes must be granted in writing. This technical report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4. (5) The correctness of the information related to sample(s) in the Test Request Form/Customer letterhead/Email is the customer's responsibility. The laboratory reports the said information in the test report and is not liable for the same.

ANNEXURE-8

National Accreditation Board for Testing and Calibration Laboratories

NABL

CERTIFICATE OF ACCREDITATION

SHRIENT ANALYTICAL & RESEARCH LABS PRIVATE LIMITED

has been assessed and accredited in accordance with the standard

ISO/IEC 17025:2017

"General Requirements for the Competence of Testing & Calibration Laboratories"

for its facilities at

416/15, DHARGAS ROAD, PERUNGALATHUR, WEST TAMBARAM, CHENNAI, KANCHIPURAM, TAMIL NADU, INDIA

in the field of

TESTING

Certificate Number: TC-12339

Issue Date: 30/09/2025 **Valid Until:** 29/09/2029

This certificate remains valid for the Scope of Accreditation as specified in the annexure subject to continued satisfactory compliance to the above standard & the relevant requirements of NABL.
(To see the scope of accreditation of thislaboratory, you may also visit NABL website www.nabl-india.org)

Name of Legal Entity: SHRIENT ANALYTICAL AND RESEARCH LABS PRIVATE LIMITED

Signed for and on behalf of NABL

Anuja Anand
Director

Chakravarthy T. Kannan
Chief Executive Officer

ANNEXURE-9

அனுப்புநர்:
திருமதி.பா.மாலதி M.A.,M.Phil.,M.Ed.,
தலைமை ஆசிரியர்,
அரசு மாதிரி மேல்நிலைப்பள்ளி,
பாடாலூர்.

பெறுநர்:
திரு.பி.வேல்முருகன்,
10/1,பிளாக் 3,
பாடாலூர் கிழக்கு,
ஆலத்தூர்.

ந.க.எண் : 40/2025 நாள்: 17.06.2025.

ஐயா,

பொருள்: பெரம்பலூர் மாவட்டம் - பாடாலூர் அரசு மாதிரி மேல்நிலைப்பள்ளி - பள்ளியில் பயிலும் மாணவ / மாணவியர்களுக்கு உணவருந்தும் கூடம் அமைத்து தரக் கோருதல் - சார்பு.

வணக்கம், இப்பள்ளியில் சுமார் 850 மாணவ/ மாணவியர்கள் பயின்று வருகின்றனர். மாணவ/ மாணவியர்கள் நலன் கருதி அனைவரும் அமர்ந்து உணவருந்தும் வகையில் உணவருந்தும் கூடம் அமைத்து தருமாறு அன்புடன் கேட்டுக்கொள்ளப்படுகிறது.

17/6/25

தலைமை ஆசிரியர்
அரசு மாதிரி மேல்நிலைப்பள்ளி
பாடாலூர் - 621109,
பெரம்பலூர் மாவட்டம்.

P. வேல்முருகன்